11/1/2018

SSTAM  CSA  CSA  CSA  CSA  CSA  CSA  CSA  C		raichasea nem	Description	Part Project No	rojeci	ID Qty		Due Ro	eceived A	Received Accounting Container Quantity Job No No	Container No	Status	Receive	Price/Unit Aging	Aging F	Past	Total	Supplier
MITHES-P.0.625   Holf Rolled Steel Plate   16   16   16   16   16   16   16   1							32 11/1		32		5123398	Quarantine 10/31/2018 \$ 4.00 / sf	10/31/2018	\$ 4.00 / sf			95	Acier Ouellette Inc.
M1018R1.625   Found bar 1.625   12   12   5123481	MT-H		I Rolled Steel Plate 225" thk : MATERIAL: IT ROLLED STEEL ATE ASTM A36 OR TM A1011 OR 44W OR TM A1018				91		91	6	123399	Stock	10/31/2018 \$ 26.76 / sf	\$ 26.76 / sf	-		\$428.20 Acier Ouelli Inc.	Acier Ouellette Inc.
M304R0.313         304 SS Round bar .313:         12         \$123400           MATERIAL: AISI 304/316         5 ROUND BAR AS PER AS PER AS ROUND BAR AS PER AS TOWN BAR AS PER AST MASS         303 NOT ACCEPTABLE         36         36         \$123401           M303R0.500         303 Round Bar 0.500***: MATERIAL: AISI 303 SS ROUND BAR AS PER AST MASS         ACCEPTABLE receive ft AST MASS         24         \$123402           M303R1.000         303 Round Bar 1.00: MATERIAL: AISI 303 SS ROUND BAR AS PER AST MASS         ACCEPTABLE receive ft AST MASS         \$123402           M303R0.750         303 Round Bar 0.750: MATERIAL: AISI 303 SS ROUND BAR AS PER AST MASS         ACCEPTABLE receive ft AST MASS         \$123403           M303R0.750         303 Round Bar 0.750: MATERIAL: AISI 303 SS ROUND BAR AS PER AST MASS         ACCEPTABLE receive ft AST MASS         \$123403	M101		nd bar 1.625: TERIAL: AISI 1018- 55 ROUND BAR 010S20GA AS PER -S-7097 OR ASTM				12		12	6	123481	Stock	10/31/2018 \$ 9.94 / //	: 9:94 / ft	-		\$119.24 Acier Ouelli Inc.	Acier Ouellette Inc.
M303R0.500         303 Round Bar 0.500**:         36         36         \$123401           MATERIAL: AISI 303 SS         ROUND BAR AS PER         5123401           ACCEPTABLE receive ft         ACCEPTABLE receive ft         24         \$123402           MATERIAL: AISI 303 SS         ROUND BAR AS PER         5123402           ROUND BAR AS PER         ASTM A582         NOTE:304/316 NOT         5123402           MATERIAL: AISI 303 SS         NOTE:304/316 NOT         24         \$123402           MATERIAL: AISI 303 SS         NOTE:304/316 NOT         24         \$123403           MATERIAL: AISI 303 SS         NOTE:304/316 NOT         24         \$123403           MATERIAL: AISI 303 SS         NOTE:304/316 NOT         24         \$123403	M304		SS Round bar .313: TERIAL: AISI 304/316 ROUND BAR AS PER TM A276 NOTE: AISI NOT ACCEPTABLE		+				12	σ		Stock	10/31/2018 \$ 0.91 / R	0.91/ft	-		\$10.92 A	\$10.92 Acier Ouellette Inc.
M303R1.000 303 Round Bar 1.00:  MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE receive ft M303R0.750 303 Round Bar 0.750: ROUND BAR AS DED ROUND BAR AS DED	M303I		Round Bar 0.500**: TERIAL: AISI 303 SS UND BAR AS PER TM A582 TE:304/316 NOT				36.		36	6		Stock	10/31/2018 \$ 2.83 / ft	2.83/ft	-		\$102.73 A	\$102.73 Acier Ouellette Inc.
M303R0.750 303 Round Bar 0.750 : 28 S123403 MATERIAL. AISI 303 SS ROIIND RAP & S DED	M303F		Round Bar 1,00: FERIAL: AISI 303 SS JND BAR AS PER M A582 IE:304/316 NOT				24		24	io		Stock	10/31/2018 \$ 10.15 / 11	10.15/ft	-	1	\$246.02 A	\$246.02 Acier Ouellette Inc.
ASTM ASS ASS NOTE: SOURCE FEER ASS NOTE: 304/316 NOTE: ACCEPTABLE receive ft	M303F		303 Round Bar 0.750: MATERIAL: AlSi 303 SS ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft						58	0		Stock	10/31/2018 \$5.41 / ft	5.41/ft	-	-	\$150.02 Acier Ouellette Inc.	cier uellette ic.

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Supplier Name	Acier Ouellette Inc.	Acier Ouellett <i>e</i> Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.
Total	\$54.74 \( \)	\$116.10	\$95.27	\$137.39	\$1,014.91
Past Due					
Aging Days	-	-			-
Price/Unit	\$2.74 / ft	\$ 4.64 / R	\$ 6.35 / 11	\$ 11.50 / R	\$ 28.19 / ft
Receive Date	10/31/2018	10/31/2018 \$ 4.64 / R	10/31/2018	10/31/2018	10/31/2018
Status	Stock	Stock	Stock	Stock	Stock
	S123404	S123405	S123406	S123407	S123777
Received Accounting Container Quantity Job No No					
Received / Quantity	50	25	15.	12	98
Date					
Order	50	25	15	12	98
Equipment Order ID Qty					
Part Project No					
Part					
Description	Round Bar 1.00***: MATERIAL: 6061- TE/T651/T6510/T651/T62 ALUMINUM ROUND BAR ANS-QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4116/416 OR QQ- 420/8 OR AMS-QQ-A- 200/8 OR AMS-410 OR ASTIM B221 OR ASTM B221 receive ft	6061 Round Bar 1.125: MATERIAL: 6061- TG/T65/T65/0/T65/1/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-4117 AMS-4117 A128/4115/4116 OR QQ- AA-2008 OR AMS-4160 OR ASTM B221 OR ASTM B221 receive ft	6061-T6 Round Bar 1.50: MATERIAL: 6061- T671651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-400-A-225/8 OR AMS-4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-4160 OR AA-200/8 OR AMS-4160 OR AST M BZ21 OR ASTM	6061T6 Bar 1.000 X 3.000 : MATERIAL: 6061- Tieffes/fres/fors/11/fes ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS-QQ- A-225/8 OR AMS-QQ- A-225/8 OR AMS-QQ- A-200/8 OR AMS-QQ- A	M6061T6B1.000X06.000   6061T6 Bar 1.00 X 6.00 :
Purchased Item	M6061T6R1.000	M6061T6R1.125	M606176R1.500	M608178B1.000X3.000	M6061T6B1.000X06.000
Terms	4		<del>-</del>	L	
Rel	4	ι,	9	82	50
Supplier Item No No	4.	15	_		
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11/1/2018

Supplier	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.	Acier Ouellette Inc.
Total	⊕ 18.49	\$172.41	\$167.63	5284.46	\$20.90	\$380,68
Past						
Days	-			-	-	-
Price/Unit Days	8-1.54/ft	\$ 28.74 / ft	\$ 13.97 / ft	\$ 23.71/ft	\$ 1.05 / ft	95.17 / ft
Date	10/31/2018 \$	10/31/2018 \$	10/31/2018 \$	10/31/2018	10/31/2018	10/31/2018 \$ 95.17 / ft
Status	Stock	Stock	Stock	Stock	Stock	Stock
	S123408	S123409	S123410	S123411	S123412	\$123413
Received Accounting Container Quantity Job No No						
Quantity	12	۵	12	12	20	4
Date						
Oty	2	· ω	12		20	4
ID Qty						
Part Project No						
Part	19 Z -1 -1	0 2 4 4	2	0 % 4 % 4	0	α
Description	6061T6 Bar 0.625 X 0.625 : MATERIAL: 6061- T60T6517T65100T65117T62 A-LUMINUM BAR PER A-225/8 OR AMS-QQ- A-225/8 OR AMS A-17/4128/4115/4116 OR QQ-A-2008 OR AMS-T0Q QQ-QQU OR AMS-T10 A-2008 OR ASTIM B211 IOR ASTIM B221 receive ft	6061T6 Baz 2.500 X 2.500 : MATERIAL: 6061- T67T65/1765/10765/1762 ALUMINUM BAR PER- A-225/6 OR AMS-QQ- A-225/6 OR AMS-QQ- A-225/6 OR AMS-QQ- A-205/8 OR AMS-QQ- A-205/8 OR AMS-QQ- QQ-A-200/8 OR AMS-QQ- QQ-A-200/8 OR AMS-QQ- QQ-A-200/8 OR AMS-QQ- QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS-QQ- OR ASTM 8211 OR ASTM B221 receive ff	6061-16 Bar 1.50 X 2.00: MATERIAL: 6061- T67165/10765/11762 ALUMINUM BAR PER QQ-A-2258 OR AMS-QQ-A-2258 OR AMS-QQ-A-2258 OR AMS-QQ-A-2008 OR AMS-QQ-A-2008 OR AMS-QQ-A-2008 OR AMS-QQ-OR-SATM B211 OR ASTM B211 teceive it	6061T6 Bar 2,000 X 3,000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQA-A-225/8 OR AMS-QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS-QQ-A-200/8 OR AMS	6061T6 Angle 1.00 X 1.00 X .125W : MATERIAL: 6061-T6/T6610/T6611 ALUMINUM ANGLE AS PER AMS-QQ-A-200/8 receive ft	AISI 4140 Quenched & Tempered Steel Round Bar 4,000" Dia : AISI 4140 Q&T Round Bar : MATL: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT
Purchased item	M6061T6B0.625X00.625	M6061T6B2,500X2,500	M6061T6B1.500X2.000	M6061T6B2.000X3.000	M6061T6A1.000W.125	MT-4140QT-R4,000
Terms		1.			T	
No	23	24	52	56	27	30
Supplier Item No						
PO No S						

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Supplier Name	Acier Ouellette Inc.	\$428.20 Acier Ouellette Inc.	Acier Duellette nc.	
Total	\$242.15 Acier Ouell Inc.	\$428.20	\$270.46 Acier Ouellette Inc.	\$3,499.01
Past Due				
Aging Days	-	-	-	
Receive Price/Unit Days Due	\$ 121.08 / ft	\$ 26.76 / sf	\$ 10.96 / ft	
Receive Date	10/31/2018	10/31/2018 \$ 26.76 / sf	10/31/2018 \$ 10.96 / ft	
Status	Ouarantine 10/31/2018 \$ 121.08 / ft	Stock	Stock	
Container	\$123414	\$123415	5123416	
Received Accounting Container Quantity Job No No				
Received / Quantity	2	16	25	377
Due Date				
Order	2	16	24	372
For Project Equipment Order No				Total:
Project				
For No				
Description	Hot Rolled Steel Round Bar 6.000" Dia. MATERAL: HOT ROLLED STEL ROUND BAR ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018	Hot Rolled Steel Plate 0.625" th: . MATERIAL: HOT ROLLED STEEL PLATE ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018	17-4 Round Bar .750 : 17- 4 PH / \$1740 / TYPE 630 SS ROUND BAR PER AMS 5643 ASTM A564 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = ULTIMATE TENSILE STRENGTH = 150 KSI receive it	
PO No Supplier Item No	MT-HRS-R-6 000	MT-HRS-P-0.625	M17-4-R0.750	
Terms				
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PO No				

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Plex 11/1/2018 3:17 PM dart. Tollis. Andrew



Tel (613) 632-5200

## **PURCHASE ORDER** PO041482

ACI001-VC Supplier:

Acier Ouellette Inc. 935 Boul. Du Havre

Valleyfield

QC

J6S 5L1 Canada Phone: 800 667 4248

Fax: 450 377 5696

1270 Aberdeen Street

Hawkesbury

Ship To:

K6A 1K7 Canada Phone: 613-632-5200

ON

PO No:

PO041482

PO Date:

10/26/18 11/1/18

Due Date:

**Purchase Order** 

Revision:

**Revision Date:** 

**Ship-To Contact:** 

Lavoie, ChantalPhone:

clavoie@dartaero.com

Via:

Ground

Pymt Terms: Freight Terms: Net 30

Special Comments: QUOTE NO. SOU0141363

Line	Lab	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity		Unit Price (CAD)	Extended Price
1	JOB	M1010S.125	raitio	1010-1025 Sheet .125 : AISI 1010-1025 OR ASTM A36/A366/A1008 OR CSA G40-21, 38W/44W/50W/60W/70W NO SCALE ON SHEET MINIMUM YIELD TENSILE STRENGTH= 28KSI MINIMUM ULIMATE TENSILE STRENGTH= 42KSI COLD ROLLED receive sf	Firmed		11/1/18	32 sf		32 sf	\$3.9975/sf /8//o/3i	\$127.92
34 X		MT-HRS-P-0.625		Hot Rolled Steel Plate 0.625" thk : MATERIAL: HOT ROLLED STEEL PLATE ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018	Firmed	Tanana a tananana a papa a manana a man	11/1/18	16 sf	0.sf	16 sf	\$26.7625/sf	\$428.20
3		M1018B0.625X10.000		1010-1025 Steel Bar .625 X 10.000 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft	Firmed		11/1/18	4 fi	t Off	4 ft	\$80.00/ft	\$320.00
N/A		M1018R1.625		round bar 1.625 : MATERIAL: AISI 1018- 1025 ROUND BAR M1010S20GA AS PER MIL-S-7097 OR ASTM A108	Firmed		11/1/18	12 f	() Lt+	1 12 ft	\$9.936666/ft	



## PURCHASE ORDER PO041482

				Item	S						
Line	Job	Part	Supplier Part No Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
5		M304B0.750X1.000	304 Bar 0.750 X 1.000" : MATERIAL: AISI 304/31 SS BAR OR AISI 304/311 SS PLATE AS PER ASTI A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft			11/1/18	12 ft	O ft	12 ft	\$12.136666/ft	\$145.64
6		M304B1.000X1.250	304 Bar 1.000 X 1.250" : MATERIAL: AISI 304/31 SS BAR OR AISI 304/31 SS PLATE AS PER ASTI A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	6	-	11/1/18	12 ft	O ft	12 ft	\$20.227/ft	\$242.72
7 M		M304R0.313	304 SS Round bar .313 : MATERIAL: AISI 304/31 SS ROUND BAR AS PEI ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft		-	11/1/18	12 ft	1284	12 ft	\$0.91/ft 18/10/31	\$10.92
8 A		M303R0.500	303 Round Bar 0.500" : MATERIAL: AISI 303 S: ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	-	11/1/18	36 ft	0 ft		\$2.834/ft A1 18/10/3	\$102.02
9 M		M303R1.000	303 Round Bar 1.00 : MATERIAL: AISI 303 S ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	i -	11/1/18	24 ft	0 ft		\$10.145/ft A1 18/10/3	
10		M303R0.750	303 Round Bar 0.750 : MATERIAL: AISI 303 S ROUND BAR AS PER ASTM A582 NOTE:304/316 NOT ACCEPTABLE receive ft	Firmed	d -	11/1/18	-24 fi	27.75	24 ft	\$5.406/ft AT 18/10/	
11		M303B1.000X03.000	303 Bar 1" X 3' : MATERIAL: AISI 303 S BAR AS PER ASTM A5I NOTE: AISI 304/316 NO ACCEPTABLE receive ft	2	d -	11/1/18	12 f	t Of	t 12 ft	\$48.785/ft	\$585.42
12		M4130NT0.500W.083	4130 Round Tube .500 3 .083W : MATERIAL: AISI 4130N STEEL TUBING AS PER MIL-T-6736 OR AMS 6371/6360/6361/6362 6373/6374 receive ft	ı	d -	11/12/18	3 100 f	t Of	t 100 fi	t \$14.50/ft	\$1,450.00



Tel (613) 632-5200

## PURCHASE ORDER PO041482

Line			Supplier		01.1		Due		Received	Dalanas	Unit	Extended
Item	_	Part	Part No	Description		Account	Date		Quantity 0 ft		Price (CAD) \$15.85/ft	Price \$380.40
13		M4130NR0.250		4130 Steel Round Bar .250" : MATERIAL: AISI 4130N ROUND BAR AS PER MIL-S-6758 OR AMS 6348/6370/6528 receive ft	Firmed		11/1/18	24 ft	O II	24 11	\$ 15.65/11	\$360.40
14 Ar		M6061T6R1.000		Round Bar 1.00" : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed		11/1/18	20 ft	oft 20ft	20 ft	\$2.737/ft Af (3/10/31	\$54.74
15 Al		M6061T6R1.125		6061 Round Bar 1.125 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ-A-220/8 OR AMS-QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	11/1/18	25 ft	0 A	25 ft	\$4.644/h M [8//3/3]	\$116.10
16 Ar		M6061T6R1.500		6061-T6 Round Bar 1.50 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM ROUND BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117 4128/4115/4116 OR QQ- AA-200/8 OR AMS-QQ-A- 200/8 OR AMS 4160 OR ASTM B221 OR ASTM B221 receive ft	Firmed	-	11/1/18	15 ft	0 A	15 ft	\$6.351/A	\$95.27
17		M6061T6S0.875X2.250		6061-T6 SHEET 0.875" thk, 2.250" wide : MATERIAL: 6061- T6/T62/T651 ALUMINUM SHEET OR PLATE SPECIFICATION: QQ-A- 250/11 OR AMS-QQ-A- 250/11 OR AMS 4025 OR 4027 OR ASTM B209	Firmed	-	11/1/18	12 ft	0 ft	12 ft	\$19.583/ft	\$235.00



## PURCHASE ORDER PO041482

			item	5						
Line Item Job		Supplier Part No Description	Status	Account	Due Date		Received Quantity	Balance	Unit Price (CAD)	Extended Price
18	M6061T6B1.000X3.000	6061T6 Bar 1.000 X 3.0 : MATERIAL: 6061- T6/T651/T6510/T6511/T ALUMINUM BAR PER QQ-A-225/8 OR AMS-Q A-225/8 OR AMS 4117/4128/4115/4116 O QQ-A-200/8 OR AMS-Q A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	62 Q-	-	11/1/18	12 ft	on DFt	12 ft	\$11.499166/ft  At 18/10/31	\$137.99
19	M6061T6S1.000X3.625	6061T6 SHEET1.000 X 3.625 : MATERIAL: 6061- T6/T62/T651 ALUMINU SHEET OR PLATE SPECIFICATION: QQ-A- 250/11 OR AMS-QQ-A- 250/11 OR AMS 4025 OR 4027 OR ASTM B209	-		11/1/18	6 ft	O ft	6 ft	\$39.166/ft	\$235.00
20 J	M6061T6B1.000X06.000	6061T6 Bar 1.00 X 6.00 : MATERIAL: 6061- T6/T651/T6510/T6511/ ALUMINUM BAR PER QQ-A-225/8 OR AMS-0 A-225/8 OR AMS 4117/4128/4115/4116 O QQ-A-200/8 OR AMS-0 A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	762 PQ-		11/1/18	36 ft	0 ft 36ft	36 ft	\$28.192/ft AC 18/10/31	\$1,014.91
21	M6061T6S2.500X7.000	6061T6 SHEET 2.500 2 7.000 : MATERIAL: 6061- T6/T62/T651 ALUMINU SHEET OR PLATE SPECIFICATION: QQ-/ 250/11 OR AMS-QQ-A- 250/11 OR AMS 4025 OR 402 OR ASTM B209	M 4-	d -	11/1/18	4 fi	t Off	4 ft	\$191.25/ft	\$765.00
22	M6061T6B2.500X01.500	6061-T6 Bar 2.50 X 1.5 : MATERIAL: 6061- T6/T651/T6510/T6511/ ALUMINUM BAR PER QQ-A-225/8 OR AMS- A-225/8 OR AMS- 4117/4128/4115/4116 O QQ-A-200/8 OR AMS- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	T62 QQ- DR QQ-	d -	11/1/18	36 f	t Of	t 36 fi	\$16.74/ft	\$602.64



## PURCHASE ORDER PO041482

			Items	5						
Line Item Job	Part	Supplier Part No Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
23 Ad	M6061T6B0.625X00.625	6061T6 Bar 0.625 X 0.625 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		-	11/1/18	12 ft	0A	12 ft	\$1.541/ft At 18/10/31	\$18.49
24 Al	M6061T6B2.500X2.500	6061T6 Bar 2.500 X 2.500 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft			11/1/18	6 ft	CC+	6 ft	M 18/10/31	\$172.41
25 M	M6061T6B1.500X2.000	6061-T6 Bar 1.50 X 2.00 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ- A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ- A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft		-	11/1/18	12 fi	()-ft	12 ft	\$13.969/ft Af 18/10/31	\$167.63
26, 41	M6061T6B2.000X3.000	6061T6 Bar 2.000 X 3.000 : MATERIAL: 6061- T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ: A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	2		11/1/18	12/	1247		\$23.705/ft AT 18/13/3	
37 M	M6061T6A1.000W.125	6061T6 Angle 1.00 X 1.00 X .125W : MATERIAL: 6061- T6/T6510/T6511 ALUMINUM ANGLE AS PER AMS-QQ-A-200/8 receive ft	Firmed	1 -	11/1/18	201	20ft	t 20 fi	\$1.045/ft At 13/10/31	\$20.90



## PURCHASE ORDER PO041482

				Items					-		
_ine tem Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
28	MT-4140QT-R0.875			Firmed	-	11/1/18	20 ft	Oft	20 ft	\$4.211/ft	\$84.22
29	MT-4140QT-R2.750		AISI 4140 Quenched &Tempered Steel Round Bar 2.750" Dia. : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT	Firmed	-	11/1/18	15 ft	O fi	t 15 ft	\$35.91/ft	\$538.65
30 J	MT-4140QT-R4.000		AISI 4140 Quenched &Tempered Steel Round Bar 4.000" Dia. : AISI 4140 Q&T Round Bar : MAT'L: AISI 4130 QUENCHED & TEMPERED ROUND BAR AS PER ASTM 4140 QT OR ASTM 4142 QT		-	11/1/18	4 f	y y	t 4 ft	\$95.17/ft AT 18/1/9/3	
31	MT-HRS-R-6.000		Hot Rolled Steel Round Bar 6.000" Dia. MATERIAL: HOT ROLLED STEEL ROUND BAR ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018	Firmed	1 -	11/1/18	1 21	n o	ft 2 f	# \$121.075/f	
32, AC	MT-HRS-P-0.625		Hot Rolled Steel Plate 0.625" thk : MATERIAL: HOT ROLLED STEEL PLATE ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018	Firme	d -	11/1/18	3 16 9	sf os		f \$26.7625/s M/8/10/3/	



**PURCHASE ORDER** PO041482

Tel (613) 632-5200

Items													
Line Item			Supplier Part No	Description	Status	Account	Due Date		Received Quantity		Unit Price (CAD)	Extended Price	
33 BC		M17-4-R0.750		17-4 Round Bar .750 : 17-4 PH / S17400 / TYPE 630 SS ROUND BAR PER AMS 5643/ ASTM A564 GRAIN MUST BE ALONG LENGTH OF BAR MINIMUM YIELD TENSILE STRENGTH = 100 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 150 KSI receive ft	Firmed	-	11/1/18	24 ft	on 24.17		\$8.2754166/ft		
											<b>Grand Total:</b>	\$10.078.7	

**Order Notes** 

**Procurement Quality Clauses** 

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 10/26/18 12:23 PM dart.lavoie.chantal



#### ACIER OUELLETTE INC.

935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

### **DELIVERY - CLIENT**

Conv

CO00117760

Billed to

DART AEROSPACE LTD

1270, ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Instruction F-M Shipped to

1270, ABERDEEN ST.

HAWKESBURY, Ontario, K6A 1K7

Att: LUSSIER Tél.: (613) 632-5200 X 730

**Delivery Route** 

Customer N°

Date

**Delivery date** 

Your order No

Processed by

Salesman

Carrier

**OUELLETTE VALLEYFIELD** 

CLI0001056

2018/10/29

PO041482

2018/10/30

Denis Quenneville

instruction	belivery Route			Cr	edit Ter	me	Net 30 I	Days			
					PCS NB		1	nterna	al Us	se O	nly
Product Description	Weight	Qty	UM	CMD	EXP	B/O	IN	I	S	С	OUT
1 HR SHEET 11G (4 X 8)	160.00	32.00	P12_\$CLB		XX						
FEH-11G48 <b>2984</b>				/	140						
1 FEUILLE 48 X 96					LIX8	$\times$					
Heat : (152886)	408.00	16.00	PI2_\$CLB								abili 1
2 PLATE 44W 5/8 RANDOM P44-58-V 4128	400.00	16.00	P1Z_\$CLD	/	114		100				S.XIR
1 PL. 4' X 4'				/	444		1 x20	\/			4X4
Heat: (6913D4) M						1					
3 ROUND CR 1 5/8 1018 (R)	84.60	12.00	PI_\$CLB		14						
RCR-158 <b>5283</b>					,						
1 X 12'					12'	1					
Heat: (41299AG) M	3.12	12.00	PI_\$CLB							İ	
4 ROUND SS 5/16 304 (R) RSS-516 5773	3.12	12.00	LT_åCFD		12/2						
1X					11/12	V					
Heat : (46862) M						1					
5 ROUND SS 1/2 303 (R)	24.01	36.00	PI_\$CLB			111					
RSS-12303 <b>5727</b>					212	N /					
3 X				1/	314						
Heat .8918 / 936L 6 ROUND SS 1 303 (R)	64.08	24.00	PI_\$CLB		//	11					
RSS-1303 <b>8519</b>	04.00	24.00	FI_\$CLD		0	1.					
2 X					3×9	1					
Heat (923K) A						1					
7 ROUND SS 3/4 303 (R)	36.05	24.00	PI_\$CLB	/	NB'	10"	A				
RSS-34303 <b>5761</b>					11/	11"					
2 X					11/13						
Heat .(5)049)   M					HA			İ	[	1	



CO00117760

					PCS NB		Internal Use Only				
Product Description	Qty	Weight	UM	CMD	EXP	B/O	IN	I	S	С	OUT
8 ROUND ALU 1 6061-T6 *	18.50	20.00	PI_\$CLB	-	1						
RAL-1 <b>5141</b>					120					1	
1 X 20'					1						
Heat (SXE171894) M	29.18	25-00	PI_\$CLB								
9 ROUND ALU 1 1/8 6061-T6 * RAL-118 5124	29.10	24.00	)		15						
		31		1 (	DXC	/					
Heat: 200238076 3 X D'DC					0						
10 ROUND ALU 1 1/2 6061-T6 *	31.14	15.00	PI_\$CLB		1		1 .1				-1
RAL-112 <b>5119</b>				/	10/0		Cut 20	1. /	1		115
1 X 15'							Cui	1			17,5
Heat : SXF180601					1						
11 FLAT ALU 1 X 3 6061-T6 *	42.34	12.00	PI_\$CLB		1,2		1 221	1 /			1×8'
FAL-13 <b>2500</b>					11/10	V	cutal	V			1Xx
1 X 12' Heat: CN1805548) A											'
12 FLAT ALU I X 6 6061-T6 *	253.76	36.00	PI_\$CLB					Ì			
FAL-16 2536	233,70			/	2.15	1)					
3 X 12'					SXP	ľ					
Heat (SXA180811) M					-						
13 SQUARE ALU 5/8 6061-T6 *	5.51	12.00	PI_\$CLB	/	1		) .		,		, C/ i
CAL-58 <b>1793</b>					GXI.		K. # 20'	V			148'
1 x 12'				(	IXP		Child Service	ŀ			
Heat : .64021	44.10	6.00	PI_\$CLB						i		
14 SQUARE ALU 2 1/2 6061-T6 * CAL-212 1783	44.10	0.00	LI_\$CED	/	111		1 21				
1 x 6'					11/6		Cut 12	V			1X61
Heat (39334) M					1	1	Cacc 10				
15 FLAT ALU 1 1/2 X 2 6061-T6 *	42.34	12.00	PI_\$CLB		1	)					
FAL-1122 <b>2440</b>				/	1,112						
1 X 12'					1XI	1					
Heat: (17184871A)		40.00	P1 4015								
16 FLAT ALU 2 X 3 6061-T6 *	84.67	12.00	PI_\$CLB	1	1		X				
FAL-23 <b>2560</b>					11/2	/					
1 X 12' Heat : (18020791B AT					XIO			-			





CO00117760

					PCS NB		Interna	l Us	e Onl	У
<b>Product Description</b>	Qty	Weight	UM	CMD	EXP B/O	IN	I	S	С	OUT
7 ANGLE ALU 1 X 1 X 1/8 R 6061-T6 *	5.62	20.00	PI_\$CLB							
AAL-1118 <b>1301</b>					1 ( OCX					
1 X 20' Heat : 5XF180280 A										
8 ROUND 4140 HEAT TREAT 4 (R)	176.28	4.00	PI_\$CLB	1	18			- 1		
R4140-4H <b>4965</b>									-	
1 X 4' Heat (C149271) M			+OLD		4					
9 ROUND CR 6 1018 (R)	192.26	2.00	PI_\$CLB		fix \					
RCR-6 <b>5354</b>										
1 X 2' Heat : 1702492										
20 PLATE 44W 5/8 RANDOM	408.00	16.00	PI2_\$CLB				-			
P44-58-V <b>4128</b>					15/47					
1-PL 4' X 4' 6913D4 A										
21 ROUND SS 3/4 17-4PH NS	36.05	24.00	PI_\$CLB		( CIL)					
RSS-34174 <b>9268</b>					DYGT					
2 X Heat ( 95G0264-G5011) A					3/1					

Note: ATTENTION: MILL TEST REQU	te:	TENTION: M	ILL TES	T REOUIS
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anditions:
sold and delivered materials remain the property of "Acier Quellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by sold and delivered materials remain the property of "Acier Quellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by
sold and delivered materials remain the property of "Acie" Obeliette Inc. "Inc." is the came as offered and honored by the manufacturer and his warranty is transferred by "Acie" Obeliette Inc." to the client. The buyer hereby accepts to respect the client. The buyer hereby accepts to respect the client. "In the same as offered and honored by the manufacturer and his warranty is transferred by "Acie" Obeliette Inc." to the client. The buyer hereby accepts to respect the
cier Ouellette Inc." is the same as ordered and honored by the manufacturer and his warranty is dataset etc." is the same as ordered and honored by the manufacturer and his warranty is dataset etc." is the same as ordered and nonored by the manufacturer and his warranty is dataset etc." is the same as ordered and nonored by the manufacturer and his warranty is dataset etc." is the same as ordered and nonored by the manufacturer and his warranty is dataset. On the same as ordered and nonored by the manufacturer and his warranty is dataset.
lowing conditions: Net 30 days from billing date and the duyer accepts to pay darking sold conditions. Net 30 days from billing date and the duyer accepts to pay darking sold conditions. Net 30 days from billing date and the duyer accepts to pay darking sold conditions. The balance due or the repossession of the goods sold. All claims must be made spect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made specified by the payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made specified by the payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made specified by the payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made specified by the payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made specified by the payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold.
spect with this contract will lead to payment by acceleration and permits to the scher, of this choice to cannot be returned. All goods returned must be with our authorization and are subject to this five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to
25% restocking charge.

Total Weight (Lbs): 2 149.61

Prepared By: Verified By: Delivered By: Time Y M D

Customer's Signature Date

NIR: R-109516-6





ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 784

SO No., Henri & Dato.: 8066438 000040 2018/06/18	Shipment No.6 Date: 1000301040 2018/09/25	TC No., Date & Time:	ESA-516120 2018/09/27 - 18:30:15
Sold to Customer Name and Address :	Ship to Customer Name and Address:	Customer PO NO./flem:	OU-50966 / 4
LES ACIER TRANSBEC (1997) LTEE	LES ACIER TRANSBEC (1997)LTEE	BOL NO.:	1000301040
BOUL LE CORBUSIER #201-4054	BOUL J.F. KENNEDY 22	Cust.Part No.:	
LAVAL, Quebec, Canada	ST JEROME,Quebec,Canada	Carrier:	SLB TRANSIT INC 53026 06
H7L 5B2	477 486 Cert CSA G40.21 38W 2013 UD#1 05/14 / CSA G40.21 44W 20 Nandard Surface Flatness 1/2 A6 Fine Grain Fully Killed		

Supplementary Instructions: Test Cert 1:parcand@aclertransbec.com Test Cert 2: nathalie.legault@aclertransbec.com

Cust Use: STRUCTURAL STEEL Insp T/R : Test Report As Per Spec ESSAR STEEL ALGOMAING, HERSBY CERTIFIES THAT THE MATERIAL HERBIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCS WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCS WITH THE THIS MILL TEST REPORT IN AY NOT RE REPRIDUCED EXCEPT IN PULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALBOMAINC, IP YOU RECEIVE THIS DODUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (195)915-4093 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT, THIS TEST REPORT HAS EVEN GENERATED BY A COMPUTERIZED SYSTEM AND IS VALID WITHOUT A PHYSICAL SIGNATURE. COMPANY'S STANDARD RECORD KEEPING PRACTICES.

MEETS EN 102042004 TYPE 3.1 ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WAN ALGOMA COM ALL HEATS FULLY KILLED.

HEATS INDICATED WITH ("I FINE GRAINED.

HEATS INDICATED WITH (+) Made in Consider for NAFTA duty prescreaces and MAFTA manding purposes

Dimension	s(TxWxL)		Batch No.	Heat N	a-MS	Quantity	No. o		Dimensions (	TxWxL)	8:	nch No.	Heat No-		Quantity	No. 0
0.6250 ° x 96.	000 " x 240.0	0 °	BH8247A	2871		4,084 LB	1	0.62		0°x 240.00°		F6951	5913D4	05	8,168 LB	2
				********	*******	CHEM	ICAL PRO			* > - • • • • • • • • • • • • • • • • • •		******		YT	N)	DO
Heat No. (wt%)	C	Ma	P	S	Si	Cr	Ni	Cu	Mo	Al	Hb	0.070	0.0000	0.001	0.0025	0.37
2871V4.*	0.16	1.19	0.017	0.005	0.286	0.02	0.01	0.02	0.00	0.034	0.000	0.032	0.0000			
6913D4*	0.14	1.14	0.011	0.009	0.318	0.03	0.02	60.0	0.01	0.040	0.000	0.035	0.0001	0.002	0.0032	0,35

Root 1913.D4

KASHIF REHMAN

MANAGER METALLURGICAL SERVICES

\*\*WARNING\*\* DIE TEST PERUITS AND VALUER RIDORTECHERFRI DELCATE CHLY THAT HI HIE PARTICUARISTELL FULLIHICH RIS CERT FICALE BI ISQUED MEETS THE MINIMUM SPECIFIED YELD STEELS AND ON THE MILLY RIS AND PRISCIAL PROPERTIES OF SUCH STEEL AND IN CONFORMANCE WITH THE RECUMPMENTS OF THE SPECIFICATION INDICATED, THE RESIDENCE OF VALUES PEROATRO REPERIES AND THE SPECIFICATION INDICATED. EPECINGATION OTHER THAN THE ONE DISCATED AND CANNOT BE RELIED UPON FOR ANY FURDISSE (PICLUDING DESIGNER CALCADATIONS) AS REPRESENTING THE ACTUM. STRENGTH OF SUCH STEEL.



# ESSAR STEEL ALGOMA INC.,105 West Street, Sault Ste. Marie, Ontario, Canada P6A 784

STEEL							4000004	040 2018/09/25	TON	o, Date & Time !	ESA-515120 2018/09/27 - 18:30:15
old to Customer Name and ES ACIER TRANSBEC ( FOUL LE CORBUSIER #2 AVAL, Quebec, Canada	(1997) LTE 201-4054	E			LES ACI BOUL J. ST JER	USTOME IER TR F. KEN OME,Q	r Name and Addres ANSBEC (1997)LT INEDY 22 uebec, Canada	s: IEE	Cust BOL Cust	omer PO NO.Atom: 140.: L.Part No.:	OU-50866 / 4 1000301040 SLB TRANSIT INC 53026 06 4) / ASME SA36 (2017) As Rolled Std Thickness
	Tools	'art Trans	reand@scie	ortranshed	.com Te	st Cert	2: nalhalie.legault	@acierransbec.c	om		
INSPIRE : Test Report A	As Per Spen HEREBY CERT ORD KEEPING Y NOT BE REP OF DISPOSAL	DEFESTHA PRACTIC PODUCED OF DOGU	AT THE MATER ES DEXCEPT IN F IMENT. THIS T	IAL HEREIN BEL WITHOU BOT REPOR	DESCRIBE JY WRITTE IT HAS BEE	EO WAS I EN APPRO EN GENE	MADE AND TESTED IN OVAL OF ESSAR STEED RATED BY A COMPUTE	ACCORDANCE WITH LALGOVA IND. IP YOU ENIZED SYSTEM AND	THE PULES OF TH U AECENE TIUS O IS VALID WITHOU	TA PHYSICAL SIGNATURE	
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INAP TIR: TEST REPORT A ESSAR STEEL ALGOMA INC. H COMPANY'S STANDARD RECO THIS MILL TEST REPORT MAY INSTRUCTIONS ON METROD O MEETS EN 10204-2004 TYPES ISO QUALITY AND ENVIRONM	As Per Spen HEREBY CERT ORD KEEPING Y NOT BE REP OF DISPOSAL	REFES THA 3 FRACTIC PRODUCED OF DOGU	AT THE MATER ES DEXCEPT IN F IMENT. THIS T	IAL HEREIN BEL WITHOU BOT REPOR	DESCRIBE JI WRITTE IT HAS BEE	EO WAS I	MADE AND TESTED IN WAL OF ESSAR STED RATED BY A COMPUTS  MECHANIC  VIELD(KSI)	ACCORDANCE WITH  ALLOWA INC. IF YOU ERIZED SYSTEM AND  AL PROPERTY  TENSILE(KSI)	THE RULES OF THE UNITED STATES OF THE PROPERTY	TAPHYSICAL SIGNATURE	L ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE THE INTENDED RECEIVER, PLEASE CALL (705)245-4075 FOR
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INAP TIR: TEST REPORT A ESSAR STEEL ALGOMAINC. H COMPANY'S STANDARD RECT THIS MILL TEST REPORT MAY INSTRUCTIONS ON METHOD O MEETS EN 10204-2004 TYPE: ISO QUALITY AND ENTROM! Tenelle Tests Heat No. Batch No.	AS PER SPEN HEREBY CERT ORD KEEPING Y NOT BE REF OF DISPOSAL 3.1 MENTAL CERT SRCE	DEFESTINA DEFEST	AT THE MATER SES DE ACCEPT IN FI IMENT. THIS T AVAILABLE A GAUGE	T WWW.ALG	DESCRIBE IT WRITTE IT HAS BEE	EO WAS I	MADE AND TESTED IN WAL OF ESSAR STED RATED BY A COMPUTS  MECHANIC  VIELD(KSI)	ACCORDANCE WITH  ALLOWA INC. IF YOU ERIZED SYSTEM AND  AL PROPERTY  TENSILE(KSI)	THE PULES OF THE U RECEIVE TIME OF IS VALID WITHOUT EXALID WITHOUT ELS	TAPHYSICAL SIGNATURE  ELONG(%)  28  26	L ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE THE INTENDED RECEIVER, PLEASE CALL (705)245-4075 FOR
COMPANY'S STANDARD HEATTHS MILL TEST REPORT MAY INSTRUCTIONS ON METHOD OF MEETS EN 10204-2004 TYPE: SO QUALITY AND ENVIRONMENT	As Per Speriences control of the service of the ser	DEFESTHATES THAT SERVICE OF PODUCEO, OF PO	AVAILABLE A	COND	DESCRIBE IT WRITTE IT HAS BEE CHACOM METH .2	EO WAS I	WAL OF ESSAR SIED BY A COMPUTE  WEGHANIC  VIELD(KSI)  52.0	AL PROPERTY TENGILE(KSI)	THE RULES OF THE U AECENS TIME OF IS VALID WITHOUT ES S. S. S. S. S. S. S. S. S. S. S. S. S.	TAPHYSICAL SIGNATURE  ELONG(%)  28	L ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE THE INTENDED RECEIVER, PLEASE CALL (705)245-4075 FOR

KASHIF REHMAN
MANAGER METALLURGICAL SERVICES

"WARNING" THE TEST RESELTS MO VALUES REPORTED HERTHIN BOICATE ONLY THAT (I) THE PARTICLAR STREE FORWALL THIS CEATIFICATE IS ISSUED MEETS THE MINIMUM STECKED YELD STREETHAND IS IN MALLY SIGNATURE OF SUCH STEEL ARE IN COMPONING WHILE OF COMPONING FOR STREETHAND F

 REV
 DESCRIPTION
 ECN #
 DATE
 BY
 APPROVED

 B
 REMOVED LENGTH AND WIDTH DIMENSIONS
 17-875
 26/09/2017
 SAC
 WM

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL:

HOT ROLLED STEEL PLATE

SPECIFICATION:

ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018

PART NUMBER:

MT-HRS-P-[T.TTT]

WHERE T.TTT IS PLATE THICKNESS IN INCHES

EXAMPLE:

MT-HRS-P-0.750

TOLERANCES PER MANUFACTURER SPECIFICATIONS



# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-H	Lj-	Pro	- 0.625 PO/BATCH NO.: PO041482/5/23399								
DATE: 18/13/				_			3.0011	1 1 1 1 1 1			
MATERIAL CERT REC'D: 1/65					THI	CKNESS ORDE	RED: A	-625"			
QUANTITY RECEIVED: 24 5 F				-		CKNESS RECE		.625"			
QUANTITY INSPECTED: 325F				-			. 11	-41			
QUANTITY REJECTED:				SHEET SIZE ORDERED: 4x4  SHEET SIZE RECEIVED: 4x4							
D				-	SHE	E I SIZE RECE	IVED: 47				
	l N/	CR									
DESCRIPTION		neck				COMMEN.	TO				
		N)				COMMEN	13				
SURFACE DAMAGE	Y	IN									
CORRECT FINISH	Y	N									
CORROSION	Y	N									
CORRECT GRAIN DIRECTION	(Y/	N									
CORRECT MATERIAL PER M-DRAWING	ix	N	ASTM	A 36							
CORRECT THICKNESS	Y	N									
PHOTO REQUIRED	Y	N									
CORRECT REF # TO LINK CERT	Y	N	17:6	91304							
CORRECT MATERIAL IDENTFICATION CORRECT M# ON THE MATERIAL	X	N									
DOES THIS MATERIAL REQUIRE	Y	N									
ENGINEERING SIGN OFF	Υ	(N)									
DOES THIS REQUIRE AN		0									
EXTRUSION REPORT	Υ	N)									
CUT SAMPLE PIECE	OF	MAT	ERIAL A	ND PRE	FOR	M A HARDNE	SS CHECK.				
	F		ORD RES	ULTS BE	LOV	٧					
TVDE OF MATERIAL		ŀ	HRC	HRE	3	DUR A	DUR D	WEBSTER			
TYPE OF MATERIAL SIZE OF TEST SAMPLE	-										
HARDNESS / DUROMETER READIN	16										
THOMESON BONOMETER READI		otoro	la a a da el de e	4-0-11	0.00						
	te	sters .	located in	the Quality	/ Offic	<u>:e</u>					
QC 18 INSPECTION						ENGINEER	ING SIGNO	FF (if required)			
INSPECTED BY:					SIGI	NED OFF BY:					
DATE: (8/10/31			-		_ *						
DATE: 18/10/31						DATE:					

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Tfno.: 946480211 Fax: 946480128

Email: calpradera@calibradospradera.es

www.calibradospradera.es

### CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

Nº CERTIFICADO / CERTIFICATE NR.: 49935

ALBARAN 49935 Delivery Note Nr.

CLIENTE

LES ACIERS TRANSBEC (1997) LTÉE

CUSTOMER

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A 108

Ser PEDIDO	Decapiton	KCS	\$10.85 (*) \$10.80 (*)		
PAR-48735	1018 RED. ESTIRADO 41,28 (1 5/8")	1.064	- 0,076	140945	41,28
MJP-48737	1018 RED. ESTIRADO 57,15 (2 1/4")	2.102	- 0,076	140959	57,15
MJP-48737	1018 RED. TORNEADO 76,20 (3")	900	-0,102	140961	76,20
OU-47949	(1018)RED. ESTTRADO 41,28 (1 5/8") PPF 159	1.064	- 0,076	141117	41,28
OU-47949	1018 RED. ESTIRADO 55,56 (2 3/16") PR 23/10	940	- 0,076	141118	55,56
VI-48475	1018 RED. EST(RADO 50,80 (2")	4.020	- 0,076	141141	50,80
PAR-48143	1018 RED. ESTIRADO 50,80 (2")	3.042	- 0,076	141260	50,80
VI-48475	1018 RED. EST(RADO 57,15 (2 1/4")	922	- 0,076	141140	57,15
PAR-48143	1018 RED. ESTIRADO 57,15 (2 1/4")	920	- 0,076	141262	57,15
PAJ-48144	1018 RED. ESTTRADO 57,15 (2 1/4")	2.084	- 0,076	141274	57,15
PAR-48143	1018 RED. ESTIRADO 55,56 (2 3/16")	1.876	- 0,076	141261	55,56
MJP-48145	1018 RED. ESTIRADO 57,15 (2 1/4")	3.126	- 0,076	141284	57,15
MN-48543	1018 RED. ESTTRADO 41,28 (1 5/8")	994	- 0,076	141427	41,28
MN-48543	1018 RED. ESTIRADO 57,15 (2 1/4")	922	- 0,076	141423	57,15

Composición química de la colada / Chemical Analysis of Heat

4.0	OID A	OF	COLADA Cast Nr.	% C	% Cu	% Mn	% N	% P	% S	% Si
41,28	0,00	140945	41299 AG	0,165	0,090	0,783	0,003	0,020	0.022	0,195
57.15	0.00	140959	41599 AG	0,173	0.132	0,817	0,003	0,010	0,022	0,218
76,20	0,00	140961	42108	0,180	0,230	0,780	0,000	0,015	0,019	0,240
41,28	0,00	141117	41299 AG	0,165	0,090	0,783	0,003	0,020	0,022	0,195
55,56	0,00	141118	41340 IS	0,170	0,000	0,650	0,000	0,013	0,025	0,310
50,80	0,00	141141	42270 IS	0,170	0,000	0,650	0,000	0,015	0,027	0,310
50,80	0,00	141260	42270 IS	0,170	0,000	0,650	0,000	0,015	0,027	0,310
57,15	0,00	141140	41599 AG	0,173	0,132	0,817	0,003	0,010	0,022	0,218
57,15	0,00	141262	41599 AG	0,173	0,132	0,817	0,003	0,010	0,022	0,218
57,15	0,00	141274	42287 IS	0,170	0,000	0,600	0,000	0,011	0,024	0,300
55,56	0,00	141261	41340 IS	0,170	0,000	0,650	0,000	0,013	0,025	0,310
57,15	0,00	141284	42287 IS	0,170	0,000	0,600	0,000	0,011	0,024	0,300
41,28	0,00	141427	41299 AG	0,165	0,090	0,783	0,003	0,020	0,022	0,195
57,15	0,00	141423	41599 AG	0,173	0,132	0,817	0,003	0,010	0,022	0,218

Características mecánicas / Mechanical properties

Freat: 41299 AG



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Tfno.: 946480211 Fax: 946480128

Email: calpradera@calibradospradera.es

www.calibradospradera.es

## CERTIFICADO DE CALIDAD/OUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

N° CERTIFICADO / CERTIFICATE NR.: 49935

ALBARAN 49935 Delivery Note Nr.

CLIENTE CUSTOMER LES ACIERS TRANSBEC (1997) LTÉE

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

MEDIDA	OF	COLADA	Resistencia Tens. strenght	Lim.elástico Yield point	Alargamients  Elongation	Dureza HB Hardness
Measurement		Cast Nr.	N/mm2	0,2% N/mm2	Lo=50 mm.	HB
41,28	140945	41299 AG	550,00	0,00	0,00	0,00
57,15	140959	41599 AG	457,00	0,00	0,00	0,00
76,20	140961	42108	485,00	302,00	34,20	0,00
41,28	141117	41299 AG	550,00	0,00	0,00	0,00
55,56	141118	41340 IS	0,00	0,00	0,00	169,00
50,80	141141	42270 IS	0,00	0,00	0,00	139,00
50,80	141260	42270 IS	0,00	0,00	0,00	139,00
57,15	141140	41599 AG	457,00	0,00	0,00	0,00
57,15	141262	41599 AG	457,00	0,00	0,00	0,00
57,15	141274	42287 IS	0,00	0,00	0,00	147,00
55,56	141261	41340 IS	0,00	0,00	0,00	169,00
57,15	141284	42287 IS	0,00	0,00	0,00	147,00
41,28	141427	41299 AG	550,00	0,00	0,00	0,00
57,15	141423	41599 AG	457,00	0,00	0,00	0,00

#### Calidad Superficial

DESCRIPCIÓN Description	OF	Clase EN 19277-1

Observaciones: BARRAS DE ACERO ESTIRADAS / TORNEADAS EN FRIO SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto comple con las especificaciones del pedido. QUALITY DEPARTMENT: Certify that the product fulfils the order specification

Fecha/Date: 04/12/2017

Firmado: Susana Fernández Directora de Calidad



6 L 2012 -09- 24 C

M1018-R D.DDD WHERE D DDD = DIAMETER IN INCHES DIA. TOLERANCE +0.000/-0.003 +0.000/-0.003 +0.000/-0.005 +0.000/-0.005 EG. 7/8" ROUND BAR = M1018-R0 875 PER ASTM A108 AS FOLLOWS: PURCHASE MATERIAL AIS (01) 1025 ROUND BAR MIL-S-7097 OR ISTM A108 SIZE UP TO 1.5" INCL. OVER 1.5" TO 2.5" INCL. OVER 2.5" TO 4.0" INCL. OVER 4.0" TO 6.0" INCL. OVER 6.0" TO 8.0" INCL. SPECIFICATION: PART NUMBER. TOLERANCES

CP 17 19 05 05 01 06 12 BY (JATF B REFORMAT ADD AS WA 108, ADD TOLERANCES A NEW ISSUE

SHEET 1 OF 1 1018-1025 ROUND BAR
COPREGET CORP. SET DATE REPOSENCE L'ID DART AEROSPACE LTD
HAWKESBURY ONTARIO, CANADA
DRAWING NO
M1018-R
SHEE 8000 DESIGN
DEAWN
CHECKED
MFG. APPR
APPROVED
DE APPR
DATE 12 F

12.09.05

SPECIFICATION CONTROL DRAWING

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M/3/8/		5	PO	/ BATCH NO.:	POOTI	182/5123				
MATERIAL CERT REC'D: Yes  QUANTITY RECEIVED: 12ft  QUANTITY INSPECTED: 12ft  QUANTITY REJECTED: 0			THICKNES SHEET SIZ	THICKNESS ORDERED: 1.625 "  THICKNESS RECEIVED: /-615"  SHEET SIZE ORDERED: —  SHEET SIZE RECEIVED:						
DESCRIPTION	(Ch	CR leck (N)	CC	DMMENTS						
SURFACE DAMAGE	Y	N								
CORRECT FINISH	Y	N								
CORROSION	Y	(N)								
CORRECT GRAIN DIRECTION	X	N								
CORRECT MATERIAL PER M-DRAWING	Y	N	457M A108							
CORRECT THICKNESS	(Y)	N								
PHOTO REQUIRED	Y	(8)								
CORRECT REF # TO LINK CERT	Y	N	1299 46							
ORRECT MATERIAL IDENTFICATION	_	(N)								
CORRECT M# ON THE MATERIAL	Υ	(M)								
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(Z)								
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(Z)								
CUT SAMPLE PIECE		RECO	RIAL AND PREFORM A H			Lurson				
YPE OF MATERIAL			C HRB DI	UR A DI	UR D	WEBSTER				
IZE OF TEST SAMPLE										
ARDNESS / DUROMETER READI	JC									
ANDINESS / DUNOWETER READII			rated in the Quality Office							

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY:

DATE: /8/10/51

DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

RSS-516

Fidely C18636

# VIRAJ PROFILES LIMITED

Works: SURVEY NO.- 25/1, 25/2, 26 & 34, Village- MAAN, Taluka- PALGHAR, Dist.- THANE, MAHARASHTRA 401 506, INDIA, e-mail- vielqc@viraj.com

#### TEST CERTIFICATE

ORDER NO

PACKING LIST NO INSPECTION NO

DATE

P006160

64/75011211/23

100008823006

05.09.2017

GRADE

HEAT No

T-304/304L

46862 ×

8212110

BUNDLE NO: 1100756952,1100756951,1100756950,1100756949,

DESCRIPTION

STAINLESS STEEL BRIGHT BARS

COLD DRAWN POLISHED - 2H

SIZE		SHAF	E	TOL	ERANCE	LE	NGTH		PIECES		WEIGHT
5/16"	/	ROUN	D	ASTN	1 A484	12'	- 14'		1296		4,083.000 LB
					CH	EMICA	L ANAL	YSIS			
%C	%Ma	%SI	%S	%P	%Ст	%NI	%Cu	%Mo	%Co	%N2	
0.0150	1.530	0.260	0.0240	0.0340	18.260	8.030	0.680	0.370	0.140	0.08500	

#### TEST RESULTS

0.2% yield strength ksi	Tensile Strength	Elongation %	Reduction Of Area %	Hardness BHN	Grain Size NOS	
94.0	109.0	43.0	73.0	224.0	7.0	

#### SPECIFICATION:

MATERIAL CONFIRMS TO DIN EN 10088-3:2005:WNR 1.4301/1.4307,EN 10222-5 AND EN 10272 COND-A & ASTM A182/A182M-16s, ASTM A276/A276M-17 COND A, ASTM A479/A479M-17 COND A, A193/A193M-16, B8 CL-1, A320/A320M-152, B8 CL-1, A484 16, A388/A388M-05. ASME SA182-14, SA479-15, SA 193-11 B8 CL-1, SA320-11 B8 CL-1. ASTM A314-2008. IGC SATISFACTORY AS PER ASTM A 262-10 PRACTICE E. AMS 5639H/AMS5647J (EXCEPT MARKING), QQ-S-763F, NACE MR0103-2012,NACE-MR0175/ISO-15156-2015. SAE-AMS-S-7720A, MIL-S-862-B. AISI 304/304L & UNS#S30400/S30403. CERTIFICATION AS PER EN 10204-3.1.

#### REMARKS

MATERIAL IS FREE FROM MERCURY CONTAMINATION, FREE FROM WELD OR WELD REPAIRS, MICRO:FREE FROM CONTINGUS CARBIDE NETWORK ON GRAIN BOUNDARIES. MACRO: GOOD, MINIMUM SOLUTION ANNEALING TEMPERATURE 1050C, SOAKING TIME 1/2 HRS, WATER QUENCHED. MELT SOURCE: AOD. WE CONFIRM THAT THE MATERIAL HAS BEEN TESTED AND FOUND TO BE FREE FROM RADIOACTIVE CONTAMINATION.COUNTRY OF ORIGIN: INDIA.

We hereby certify that the material described above has been tested and complies with the terms of order/contract.

Reat . 46862

REV B 08 03 03 CP 09 07 '5 SHEET 1 OF DATE COPYRIGHT © 2006 BY DART ALKROSPACE LTD

A 18 An 19 An 2 An ancesto, see of questions are seen to the see of the seen and DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO AJS 304/316 ROUND BAR B REFORMAT ONT, ADD SPE 75 (ZN D6-1) M304R DESIGN A JOHN OF THE APPRINGED MFG APPR APPROVED DE APPR DATE 09.07.15

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AIS(304)316 SS ROUND BAR (NOTE: AIS) 303 NOT ACCEPTABLE)

M304R D DDD (ASTM A276)

SPECIFICATION

PART NUMBER

**€** 

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 0 75" ROUND BAR = M304R0 750

## **MATERIAL RECEIPT INSPECTION FORM**

MATERIAL: M3041	20.3	13			PO / BATCH	1 NO .: POOY	1482/5123
DATE: 18/11/0	t					0	
MATERIAL CERT REC'D: Ves				THI	CKNESS ORDE	RED: 0.3	13
QUANTITY RECEIVED: 124				THIC	CKNESS ORDE CKNESS RECE	IVED: 0.3	1311
QUANTITY INSPECTED: 12/14		-			ET SIZE ORDE		
QUANTITY REJECTED:					ET SIZE RECE		
<u></u>				OHL			
	No	CR					
DESCRIPTION	,	eck (N)			COMMEN	TS	
SURFACE DAMAGE	Υ	N		-	-		
CORRECT FINISH	(Y)	N					
CORROSION	X	W					
CORRECT GRAIN DIRECTION	Y	N					
CORRECT MATERIAL PER M-DRAWING	X	N	ASTM AZ	76			
CORRECT THICKNESS	V	N					
PHOTO REQUIRED	Y	(1)					
CORRECT REF # TO LINK CERT	Y	N	M. 46862	_			
ORRECT MATERIAL IDENTFICATION	Y	N					
CORRECT M# ON THE MATERIAL	Υ	(13)					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(N)					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(N)					
CUT SAMPLE PIECE			TERIAL AND F ORD RESULT:			SS CHECK.	
			HRC	HRB	DUR A	DUR D	WEBSTER
YPE OF MATERIAL							
IZE OF TEST SAMPLE							
ARDNESS / DUROMETER READII	-						
	te	sters	located in the Q	uality Offi	ce		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY: \_\_\_\_\_ SIGNED OFF BY: \_\_\_\_

DATE:

DATE: /8/11/01

5727

RSS-12303

5234

20600

NAS

North American Stainless Canada Inc. /40 Imperial Road North Guelph, ON N1K1Z3 Canada

UNS 30300, ASTM A582717 EN 10204 3.1, ASTM A484/18

SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12B

## METALLURGICAL TEST REPORT

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000 4).

Certificate: 449240, 1

Customer: 007205 001

Date: 9/27/2018 Page: 1

Steel: 303

Finish: CD

Corrosion:

Your Order: 5400400780

PRODUCT DESCRIPTION:

AMS 5640V TYPE 1, QQS-764B CONDITION A

Round Bar, Annealed, Cold Draw

NAS Order: PN 0096303 03

Heat Treat Code: 48,866

REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7009 EU DIRECTIVE 2011/65/EU.Rohs. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid # Diameter	Size	Weight	Length	Mark	Pieces Commodity Co	de
BJ7675 7	.5000		1,393	144.00	35	1	

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

ANAB, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTW 2751/14s

NAS Heat	CM	C	%	CO %	CR %	CU %	MN %	MO %	17	%	NI %	P	%
8918	US		.037	.10	17.15	.30	1.85	.321		.039	8.48		.032
		s	%	SI %									
			.3370	.46									

#### MECHANICAL PROPERTIES

Product Id	1 0 c	d i	HB No.	.2YS KSI	uts Ksi	RA %	Elng % 2"	-
вј7675 7	R	L	213.0	84.51	109.52	33.90	35.00	

Reat 891B

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr.

KRIS LARK



PRODUCT DESCRIPTION:

AMS 5640V TYPE 1, QQS-764B CONDITION A

UNS 30300, ASTM A582/17 EN 10204 3.1, ASTM A484/18

CM

US

SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12B

### METALLURGICAL TEST REPORT

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

Certificate: 449240. 2

Customer: 007205 001

Date: 9/27/2018 Page: 1

Steel: 303

Finish: CD

Corrosion:

Your Order: 5400400780

NAS Heat

891B

Round Bar, Annealed, Cold Draw

NAS Order: PN 0096303 03

Heat Treat Code: 48,866

REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7009 EU DIRECTIVE 2011/65/EU.ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid # Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code	
вЈ7675 8	.5000		1,211	144.00	36	1		

MN %

1.85

CU %

.30

ANAB, ISO/IEC 17025, Certificate# L2323

Chemical Analysis per ASTM A751/14a

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

CR %

17.15

CO %

.10

MO% N% NI% P%
.321 .039 8.48 .032

8 % SI %

C %

.037

#### MECHANICAL PROPERTIES

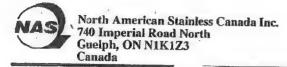
Product Id	1 0 0	d i r	HB No.	.2YS KSI	UTS KSI	RA %	Elng % 2°
вJ7675 8	R	L	213.0	84.51	109.52	33.90	35.00

Reat: 891B

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr.

KRIS LARK



PRODUCT DESCRIPTION:

AMS 5640V TYPE 1, QQS-764B CONDITION A SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12B

UNS 30300, ASTM A582/17 EN 10204 3.1, ASTM A484/18

Round Bar, Annealed, Cold Draw

## METALLURGICAL TEST REPORT

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

Certificate: 449240 3

Customer: 007205 001

Date: 9/27/2018 Page: 1

teel: 303

Finish: CD

Corresion:

Your Order: 5400400780

NAS Order: PN 0096303.03

Heat Treat Code: 48,866

REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7009 EU DIRECTIVE 2011/65/EU.RoHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid # Diameter	Size	Weight	Length	Mark	Pieces Commodity Code	
837679 9	.5000		900	144.00	37	1	

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

ANAB, ISO/IEC 17025, Certificate# L2323 Chemical Analysis per ASTM A751/14a

NAS Heat	CM	CM C		GO 0.				outil Attica)				at Amalysis per ASTM A751/14a	
	- Cus	-	3	CO %	CR %	CU %	MIN %	MO %	N	%	NI %	P	%
9361	US		.056	.16	17.16	.28	1.95	.279		.044	8.51		.033
		S	%	SI %							<del></del>		
			.3255	.45									

#### MECHANICAL PROPERTIES

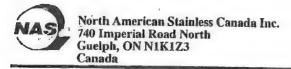
Product Id	1 0 0	d i r	HB No.	.2YS KSI	UTS KSI	RA %	Elng % 2"	
вј7679 9	R	L	192.0	79.60	104.55	37.01	22.00	

heat: 936L

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr.

KRIS LARK



PRODUCT DESCRIPTION:

AMS 5640V TYPE 1, QQS-764B CONDITION A

UNS 30300, ASTM A582/17 EN 10204 3.1, ASTM A484/18

SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12B

## METALLURGICAL TEST REPORT

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

Certificate: 449240, 4

Customer: 007205 001

Date: 9/27/2018 Page: 1

Steel: 303

Finish: CD

Corresion:

Your Order: 5400400780

Round Bar, Annealed, Cold Draw

NAS Order: PN 0096303 03

Heat Treat Code: 48,866

REMARKS:

COMPLIES W/REQUIREMENTS OF DPAR 252.225-7009 EU DIRECTIVE 2011/65/EU.ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid # Diameter Size	Weight	-Length Mar	k Pieces Commodit	ry Codo
ВЈ7682 4	.5000	977	144.00 3		o

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

ANAB, ISO/IEC 17025, Certificate# L2323
Chemical Analysis per ASTM A751/14a

		_							. Janla				THE POST TOTAL MENDEN THE
NAS Heat	CM	C	94	CO %	CR %	CU %	MN %	MO %	N	%	NI %	P	%
936L	us		.056	.16	17.16	.28	1.95	.279		.044	8.51		.033
		s	%	SI %									
			.3255	.45									

### MECHANICAL PROPERTIES

Product Id	1 0 e		HB No.	. 2YS KSI	UTS KSI	RA %	Elng % 2"
ВJ7682 4	R	L	192.0	79.60	104.55	37.01	22.00

heat: 936L

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr.

KRIS LARK

2010 -02- 02 N

REV B 10 01.05 SHEET 1 OF 1 01 12.20 DART AEROSPACE LTD
HAWKESBURY ONTARIO CANADA
HAWKESBURY ONTARIO CANADA
REV
M303R
SHEET 10
TITLE
SCA
303 ROUND BAR
NI DATE e c 30 B REF DRMAT DWG. AUD SPECS (ZN 08-1)
REF PAR 08-220.
A NEW ISSUE 10.01.05 MFG APPR.
APPROVED
DE APPR
DATE 10 ( CHECKED DESIGN DRAWN

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISISOS BS ROUND BAR (NOTE-AISI 304/316 NOT ACCEPTABLE) **@** 

0

ASTM A582

SPECIFICATION:

PART NUMBER:

M303RID.DDD DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 0.75" ROUND BAR = M303R0.750

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL:	PO / BATCH NO .: (2004 1482/) 123401
DATE: (8/11/01	
MATERIAL CERT REC'D: Yes	THICKNESS ORDERED: D. Sao"
QUANTITY RECEIVED: 34.25 [4	THICKNESS RECEIVED: 0.500"
QUANTITY INSPECTED: 36.25 St	SHEET SIZE ORDERED:
QUANTITY REJECTED:	SHEET SIZE RECEIVED:

DESCRIPTION	,	CR eck N)	COMMENTS
SURFACE DAMAGE	Υ	N	
CORRECT FINISH	(Y)	Ν	
CORROSION	Y	W	
CORRECT GRAIN DIRECTION	X.	N	
CORRECT MATERIAL PER M-DRAWING	(X)	N	ASIM ASOZ
CORRECT THICKNESS	Y	Ν	
PHOTO REQUIRED	Υ	(2)	
CORRECT REF # TO LINK CERT	(Y)	N	HT.8918/936
CORRECT MATERIAL IDENTFICATION	(1)	Ν	
CORRECT M# ON THE MATERIAL	Υ	(Z)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(2)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	3	

CUT SAMPLE PIECE OF	MATERIAL A			SS CHECK.	
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	Ar	SIGNED OFF BY:
DATE:	18/11/01	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

RSS-1303

52380

40706



North American Stainless Canada Inc. 740 Imperial Road North Guelph, ON N1K1Z3 Canada

### METALLURGICAL TEST REPORT

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

4

Certificate: 449242 4

Customer: 007205 001

Date: 9/27/2018 Page: 1

Steel: 303

Finish: CD

Corrosion:

Your Order: 5400400780

NAS Order: PN 0096303 01

Heat Treat Code: 48,998

Red Ratio: 69.4 :1

PRODUCT DESCRIPTION:

Round Bar, Appealed, Cold Draw UNS 30300, ASTM A582(17 EN 10204 3.1, ASTM A484/18 AMS 5640V TYPE 1, QQS-764B CONDITION A SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12B REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7009 EU DIRECTIVE 2011/65/EU.RohS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id		Skid #	Diameter	Size	Weight	Ler	igth	Mark	Pieces Commod	ity Code	
ВJ7983 2			1.0000		1,199		144.00	39	1		
CHEMICAL	ANALYS	SIS	CM(Country of N	fleit) ES(Spain)	US(Unite	d States) ZA(Se	outh Africa)	JP(Japan)			Certificate# L2323 per ASTM A751/14a
NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	p %	
923K	US	.04	6 .12	17.18	.37	1.88	.324	.02	8 8.57	.033	
		S %	SI %								
		. 32	50 .52								

#### MECHANICAL PROPERTIES

Product Id	1 0 c		HB No.	.2YS KSI	UTS KSI	RA %	Elng % 4D
вј7983 2	R	L	206.0	79.74	103.10	31.50	21.88

heat 923K

IAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy if the test methods used, the material meets the specifications stated. These results relate only to the items ested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr.

KRIS LARK



### METALLURGICAL TEST REPORT

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

Certificate: 449242 5

Customer: 007205 001

Date: 9/27/2018 Page: 1

Steel: 303

Finish: CD

Corrosion:

Your Order: 5400400780

Product Id

NAS Order: PN 0096303 01

Size

Heat Treat Code: 48,998

Red Ratio: 69.4 :1

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw UNS 30300, ASTM A582/17 EN 10204 3.1, ASTM A484/18

AMS 5640V TYPE 1, QQS-764B CONDITION A

SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12B

REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7009 EU DIRECTIVE 2011/65/EU.ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

-----Length----- Mark Pieces Commodity Code

BJ7983 3			1.0000		1,099		144.00	40	1		
CHEMICAL	ANALY	SIS	CM(Country of A	felt) ES(Spair	n) US(United	States) ZA(S	outh Africa)	JP(Japan)		•	Certificate# L2323 per ASTM A751/14a
NAS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %	
923K	บร	.04	.12	17.18	.37	1.88	.324	.028	8.57	.033	
		S %	SI %								

Weight

#### MECHANICAL PROPERTIES

Product Id		d i r	HB No.	.2YS KSI	urs KSI	RA %	Elng % 4D
вј7983 3	R	L	206.0	79.74	103.10	31.50	21.88

.52

Skid # Diameter

.3250

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items ested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr.

KRIS LARK



### METALLURGICAL TEST REPORT

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

Certificate: 449242 6

Customer: 007205 001

Date: 9/27/2018 Page: 1

Steel: 303

Finish: CD

Corrosion:

Your Order: 5400400780

NAS Order: PN 0096303 01

Heat Treat Code: 48,998

Red Ratio: 69.4 :1

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw UNS 30300, ASTM A582/17 EN 10204 3.1, ASTM A484/18 AMS 5640V TYPE 1, QQS-764B CONDITION A

SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12B

REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7009 EU DIRECTIVE 2011/65/EU.RoHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid # Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code	
ву7983 4	1.0000		1,029	144.00	41	i		

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

ANAB, ISO/IEC 17025, Certificate# L2323 Chemical Analysis per ASTM A751/14a

NAS Heat	CM	C %	C0 %	CR %	CU %	MN %	MO %	N %	NI %	P %	
923K	บร	-046	.12	17.18	.37	1.88	.324	.028	8.57	.033	
a		s %	SI %								
		.3250	.52								

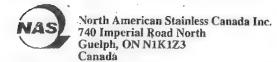
#### MECHANICAL PROPERTIES

Product Id	1 0 c	i HB	.2YS KSI	UTS KSI	RA %	Elng % 4D
BJ7983 4	R	L 206.0	79.74	103.10	31.50	21.88

IAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy if the test methods used, the material meets the specifications stated. These results relate only to the items ested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr.

KRIS LARK



### METALLURGICAL TEST REPORT

6870 Highway 42 East Ghent, KY 41045-9615 (502) 347-6000

Certificate: 449242 7

Customer: 007205 022

Date: 9/27/2018 Page: 1

Steel: 303

Finish: CD

Corrosion:

Your Order: 5400400780

Product Id

BJ7983 5

NAS Order: PN 0096303 01

Heat Treat Code: 48,998

Red Ratio: 69.4 :1

PRODUCT DESCRIPTION:

Round Bar, Annealed, Cold Draw

UNS 30300, ASTM A582/17 EN 10204 3.1, ASTM A484/18

1 4

o i

c r

RL

HB

No.

206.0

AMS 5640V TYPE 1, QQS-764B CONDITION A

SOLUTION ANNEAL TEMP 1900F MIN, ASTM F899/12B

#### REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7009 EU DIRECTIVE 2011/65/EU.ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

BJ7983 5				1.0000		1,097		144.00	42		1			
HEMICAL	ANALYS	BI.	S CN	(Country of	Melt) ES(Spain	) US(United	States) ZA(	South Africa)	JP(Japai	1)				Certificate# L232
NAS Heat	CM	C	%	CO %	CR %	CD %	MN %	MO %	N	k	NI %	P	%	
923K	US		.046	.12	17.18	.37	1.88	.324	•	028	8.57		.033	
ø.		s	%	SI %			4							
,			.3250	.52										

RA

31.50

Elng

% 4D

21.88

IAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items ested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

.2YS

KSI

79.74

UTS

KSI

103.10

Technical Dept. Mgr.

KRIS LARK

2010-02-02 M

HAWKESBURY, ONTARIO, CANADA DRAWING NO REV B SHEET 1 OF 1 01 12.20 10 01.05 DART AEROSPACE LTD COPYRIGHT 2801 BY DART AEROSPACE LTD CP OS 303 ROUND BAR B REFORMAT DWG. ADD SPECS (ZN D8-1)
REF PAR 09-202A
A NEW ISSUE
REV 10.01.05 DESIGN
DRAWN
CHECKED
MFG APPR
APPROVED
DE APPR
DATE
10.0

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI (603 SS ROUND BAR (NOTE: AISI 304/316 NOT ACCEPTABLE)

M303RID.DDD DIA. ASTM A582

WHERE "D.DDD" = DIAMETER IN INCHES EG. 0.75" ROUND BAR = M303R0.750

SPECIFICATION:

PART NUMBER: **(a)** 

0

MATERIAL: M303R DATE: 18/1/01			PO/BATCH NO.: 10041482/503403
MATERIAL CERT REC'D: 165  QUANTITY RECEIVED: 24.1514  QUANTITY INSPECTED: 24.1514  QUANTITY REJECTED: 10			THICKNESS ORDERED:
DESCRIPTION	NC (Ch Y/	eck	COMMENTS
SURFACE DAMAGE	Υ	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Υ	(0)	
CORRECT GRAIN DIRECTION	W	Ν	
ORRECT MATERIAL PER M-DRAWING	8	N	451M A582
CORRECT THICKNESS	(Y)	Ν	
PHOTO REQUIRED	Υ	(3)	
CORRECT REF # TO LINK CERT	8	N	HT: 923K
DRRECT MATERIAL IDENTFICATION	-	6	
CORRECT M# ON THE MATERIAL	Υ	(A)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Ý	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(Z)	

CUT SAMPLE PIECE OF	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
R	RECORD RES	SULTS BELOV	N		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: (8(11/01	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



## Inspection

-lui: 5J049

## CERTIFICATE

OFDER NO.: 106090007/248468

SPECIFICATION: 303

WALSIN LINEA CORP.

THERE HANT GENERAL HAND HERE LI, MINE LI

LC 10: 108

SUPPLY CONDITIONS (2)

DATE OF ISSUE: 2017/11/26

COMMODITY: 80	teinless .	Steel	Cold Dr	ten Sound Sar(	Ų
CENTIFICATE N	1	-			
liest No	Thick	Pes	We		Cheni

Heat	N.	Thick				_	-	-		_	-	-	IAC NO					VIE OL 1	38081	2017/1	L/38	
100.00	140	Thick	Pcs	18					Chem	ical C	i eoqua	t ion(w	(%)				Nech	nical F	roperty			BOUNDLE NO
-	1.00	(inch)		(LBS)	C x100	Si x100	Mn x100	P x1000	S x1000	Ni x100	Cr x100	No x100	Co x100	N x10000		TS N/mm2	YS N/m2	EL 6	BA %	HRB	HRC	
Spec	不会可				15	100	200	200	150	800 1000	1700 1900									103		
81049 0K597	Total:	3/4"	68	1254 1239 2493	5.6	27 24	184 193	27 28	328.4 229.4	927 803	1810 1765	17	55 74	221 353		710 733	535 603	33 33	46 40	97 95		W.17165008 W.17165009

TOLERANCE: MISS ASSOCIATE Cond.A.  Acc. to ASSOCIATE SHOW type 1/00-0-7600 elemistry only.  This impostion certificate is issued seconding to EN 10204 2.2	Limber Tolerance: 0-	50
Remark: Melted manufactured : Taiman , Improved machining. Solution annualed treatment; Acc. to ASTM A484.	BUTPLY GONDITIONS Astronomical Bidbot Blooked Citie Council Bidbot Blooked Richer Blooked Richer Blooked Richer Blooked Richer Blooked Richer Blooked Richer Blooked Richer Blooked Richer Blooked Richer Blooked	We have the following conflictions 1.1909001:2015 Quality Management System 2.190/IBC 17025:2005 Lebonatory Management System 3.FED & AD2000-Machine WO 4.DNV - LR - ABS Classification Society confidenting 5.19014001:2004 Environment Management System
1. We hereby certify that meterial described herein has been manufactured end tested with satisfactory results in accordance with requirement of the above meterial specification.  2. We certify that the unterial is free from mergury and radiation are satisfactors.	Histor Edge Advolution Richald Follow P:Pelaled B:Shared Vitte With	GOHEAS 18001-2007 & TOSHDAS Christians THEY METHOD: CHRICAL-ASTR E1406, 8418, E1006, 181019
and radiation contemination. Qualification No. of Taiwan Atomic Energy Committee: 136 S.The Above Testing Results Relate Only To The Items Tested. 6.Mo walking repaired	CD:Cold first CO:Contribute Ground PL:Terned or Pushed	SL KAAA, Quality Assurance Responsible Personnel

2010-02-02 M

REV. B 01 12 20 10.01.05 SHEET 1 OF DATE 303 ROUND BAR
Copylight 6 261 by DART AEROSPACE LTD DRAWING NO. MARCH CANADA MASOR DART AEROSPACE LTD SC S. B REF PAR 06-024A.
A NEW ISSUE

REV

DESCRIPTION

DESIGN MFG APPR APPROVED MY DE APPR. DATE 10.01.05 CHECKED DRAWN

PURCHASE MATERIAL: AISI 603 3S ROUND BAR (NOTE: AISI 304/316 NOT ACCEPTABLE)

ASTM A582 SPECIFICATION: PART NUMBER:

M303RID.DDD DIA.

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 0.75" ROUND BAR = M303R0.750

1

SPECIFICATION CONTROL DRAWING

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MATERIAL: M303 R0-750  DATE: /8/11/01	PO/BATCH NO .: 10041482/5/23403
MATERIAL CERT REC'D: 1/25	THICKNESS ORDERED: 0.750"
QUANTITY RECEIVED: 27.75\$	THICKNESS RECEIVED: 0.750"
QUANTITY INSPECTED: 27.75\$+	SHEET SIZE ORDERED:
QUANTITY REJECTED:	SHEET SIZE RECEIVED:

DESCRIPTION	,	CR eck (N)	COMMENTS
SURFACE DAMAGE	Y	(4)	
CORRECT FINISH	W	N	
CORROSION	Y	(1)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	W	N	45TM 458.2
CORRECT THICKNESS	8	N	
PHOTO REQUIRED	Υ	(1)	
CORRECT REF # TO LINK CERT	(Y)	N	UT:55049
CORRECT MATERIAL IDENTFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	Υ	(1)	
DOES THIS MATERIAL REQUIRE			
ENGINEERING SIGN OFF	Υ	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	3	

CUT SAMPLE PIECE OF				SS CHECK.	
F	RECORD RES	SULTS BELOV	N		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: /8/11/01	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



Global Vietnam GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN B1-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,

BA RIA VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954 Fax:

+84(0)643924953

## MILL TEST CERTIFICATE

Date: October 29, 2017

PO number: 17-P-565 Shipping Ref No.: 17-2134 LC No.: DC HMN714345 Date of issue: October 24, 2017.

Item Code: 1043003 Die Number: D00004 Alloy & Temper: 6061-T6

Production Description: CUSTOM ALUMINIUM EXTRUSION

Round Bar 1"x 20' 6061-T6

Length (inch): 240

Unit weight (kg/meter): 1.368

Bundle number: 17-P-565-043,17-P-565-042,17-P-565-041,17-P-565-040

Heat Number SXE171894

Date: 05/10/2017

Applicable Specifications (ASTM B221 STANDARDS

### CHEMICAL ANALYSIS: %

						-		(Tr)	A1	0	ther	Damoult.	
	Si .	Mg	Fe	Cu	Mn	Cr	Zn	11	Al	EACH	TOTAL	Remark:	
0.6	662	0.964	0.232	0.247	0.024	0.082	0.009	0.019	97.664	<0.05	<0.10	03/10/2017	

#### MECHANICAL ANALYSIS:

Γ	Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
-	41.7	36.8	12.3	03/10/2017

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



trung tâm kiểm nghiệm công ty TNHH NHÓM TOÀN CẦU VIỆT NAM GLOBAL VIETNAM ALUMINIUM CO. LTD TESTING CENTER

Ω

SPECIFICATION CONTROL DRAWING

QQ-A-225/8 OR ANS-OQ-A-225/8 (OR AMS 417/4128/4115/4116) OR QQ-A-200/8 OR AMS - GQ-A-200/8 (OR AMS 4160) OR ASTM B211 OR (4STM B221)

WHERE "D.DOD" = DIAMETER IN INCHES EG. 5/8" ROUND BAR = M606116R0.625

M6061T6RID DDD

PART NUMBER

U

PURCHASE MATERIAL (6061-16) 651/76510/76511/762 ALUMINUM ROUND BAR

SPECIFICATION:

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**B** 

CP 467 13 B REFORMATOWG ADD 82118 8221 SPEC (ZN D9-1),
A NLW 1554...

DS 0106 08

DART AEROSPACE LTD
HAWKESBURY, ONTARIO CANADA M6061T6R DESIGN
DRAWN
CHECKFO
MFG APPR
APPROVED
DE APPR
DE APPR
DE APPR
DE APPR

REV. B SHEET LOF I

6064-T6 ROUND BAR
COPRIGE 2881 OF DAIL ARTICLE

MATERIAL CERT REC'D: 1/25  QUANTITY RECEIVED: 2014  QUANTITY REJECTED: 2014			THICK	NECC ODDEDE	,	
QUANTITY RECEIVED: 2014  QUANTITY INSPECTED: 2014				MESS OKDEVE	D: /. 000"	
QUANTITY INSPECTED: 20ft			THICK	NESS RECEIVE	D: /. 90"	
		_		SIZE ORDERE		
QUANTITY REJECTED:		_		SIZE RECEIVE		
			SHEET	SIZE NECEIVE		
DESCRIPTION (C	ICR	:k		COMMENTS	3	
	//N)					
SURFACE DAMAGE Y	-					
	_					
CORROSION Y CORRECT GRAIN DIRECTION		N N				
CORRECT GRAIN DIRECTION  CORRECT MATERIAL PER M-DRAWING (Y		N	ASTM R211			
CORRECT THICKNESS		N	P1010-1 0221			
PHOTO REQUIRED Y		K				
CORRECT REF # TO LINK CERT		N	MI: SXE 171840	/		
CORRECT MATERIAL IDENTFICATION Y		Ŋ	711108011101			
CORRECT M# ON THE MATERIAL Y		N)				
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF		Ŋ.				
DOES THIS REQUIRE AN EXTRUSION REPORT	, [	₩				
CUT SAMPLE PIÈCE C			FERIAL AND PREFORM		S CHECK.	
	T		HRC HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL						
SIZE OF TEST SAMPLE						
HARDNESS / DUROMETER READING	3					

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

INSPECTED BY: SIGNED OFF BY:

ENGINEERING SIGNOFF (if required)

DATE:

QC 18 INSPECTION

DATE: /8/N/OI

### CERTIFICATION DU MATÉRIEL

CLIENT:

ACIER OUELLETTE INC DIV.DE

SALABERRY-DE-VALLEYFIELD

935 BOUL DU HAVRE

SALABERRY-DE-VALLEYFIELD, QUEBEC

QC J6S 5L1

NUMÉRO DE COMMANDE:

14858552 000070

COMMANDE DU CLIENT:

AC00015081

NUMÉRO DE PIÈCES:

5124

NUMÉRO DE LIVRAISON:

803622741 000010

NUMÉRO D'ARTICLE:

160001009\_

DESCRIPTION INVENTAIRE:

RD EXT 6061 T6511 1.125 X 144

DESCRIPTION ARTICLE FINIS: ALUM Barre RD EXT 6061 T6511

1.125po X 144po

NUMERO (S) DE COULÉE

BRAME / BOBINE / TIN (le cas échéant)

Z00238076

К000782772

#### CERTIFICATION

Un sondage de nos sources matérielles a indiqué que ni le mercure ni des substances radioactives ne sont introduits dans leurs produits ni ne sont utilisés dans aucun de leurs procédés. Alors que nous ne faisons aucun test indépendant pour le mercure ou la radiation, il n'y a rien dans le système rait entraîner la contamination de l'un ou l'autre type.

Ce document certifie que le matériel décrit ci-dessus a été expédié conformément à votre commande. Le producteur du matériel a certifié à qu'il a été produit conformément aux spécifications suivantes:

ASTM B221

Thomas Endres

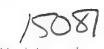
Vice-président - Approvisionnement

04/10/2018

# 5124







http://Online.KaiserAluminum.com

CUSTOMER PO NUMB 4500875969-1	ER:	CUSTOMER PART NUMBER: 160001009/EAST	PRODUCT DESCRIPTION	· RECISION ROD 1.125+/005						
	ER: LINE ITEM:	SHIP DATE:	LOT NUMBER:	ALLOY:	TEMPER:					
6051071	001	03/30/2018	Z00238076	6061	T6511B					
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:					
1024.000 LB	73.000 P	CS 622323			12.000 FT					

### **Actual Physical Properties**

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARI	ONESS	CONDUCT.	BEND
200238076	0001	0001	49.2	46.4	16.1	RE	93	N/A	N/A
Z00238076	0001	0002	49.0	46.2	16.2	RE	93	N/A	N/A
Z00238076	0001	0003	48.7	45.8	16.0	RE	93	N/A	N/A
200238076	0001	0004	49.3	46.5	16.3	RE	92	N/A	N/A

## Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
108385	.75	.25	.29	.13	.86	.09	.13	.02	.00	.00	.00	.01	.03

## Applicable Requirements:

PER ASTM-B221-14, STENCILED ASME-SB221 2009 SECT II PER AMS-QQ-A-200/8A UNS# A96061 MEETS ALL SPECIFICATION REQUIREMENTS FOR 6061-T6511/T6 ELEVATED MINIMUM MECHANICAL PROPERTIES AS FOLLOWS: UTS = 42.0 KSI MIN YIELD = 38.0 KSI MIN ELONGATION = 10.0% MIN

### Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILITZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

#### CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Plant Serial: 00328214 Order Number: 6051071

Line Item: 001

Page 1 of 1

nt. Z00238076

REV. B SCALE DS 01 06 09 BY DATE SHEET 1 OF CP 09 07 13 DART AEROSPACE LTD
HAWKE SBURY, OVITABIO CANADA
DRAWING NO.
M6061T6R 6061-T6 ROUND BAR CONTROL CONT B REF PARA OWG, ADD 82118 8221 SPEC (ZN D8-1).
REF PAR 0 922A.
A NEW ISSUE DESIGN CAMED PROVIDED TO THE CHECKED MFG APPR. MAPROVED APPRAPR DATE 09.07.13

PURCHASE MATERIAL 8061, 6/1651/16510(1851) 1752 ALUMINUM ROUND BAR SPECIFICATION.

SPECIFICATION CONTROL DRAWING

Ω

OC-A-225/8 OR AMS-OC-A-225/8 (OR AMS 4117/4128/4115/4116) OR OC-A-200/8 OR AMS-OCA-200/8 (OR AMS 4160) OR ASTM B211 OR (STM B221)

M6061T6R D DDD DIA.

WHERE "D. DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M6061T6R0.625

(B)

٥

PART NUMBER

O

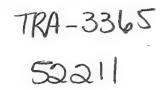
<

MATERIAL: <u>M.0617</u> DATE: 18/11/01					P	O / BATCH	NO.: <u>180414</u>	182/5123465
MATERIAL CERT REC'D: 1/21  QUANTITY RECEIVED: 2444  QUANTITY !NSPECTED: 2444  QUANTITY REJECTED: 0				TH	HEET S	SS RECEN	RED: 1.125° VED: 1.125° VED:	
DESCRIPTION	(Ch	CR eck			(	COMMENT	rs	
SURFACE DAMAGE CORRECT FINISH	Y	(N) (Z) N						
CORROSION	Y	(1)						
CORRECT GRAIN DIRECTION	7	N	1 (-7/1)	10.2.1				
CORRECT MATERIAL PER M-DRAWING	(A)	N	ASTM	Boles				
CORRECT THICKNESS	Y	N						
PHOTO REQUIRED	W	N	417	002380	7/-			
CORRECT REF # TO LINK CERT		N	7112	002300	16			
CORRECT MATERIAL IDENTFICATION  CORRECT M# ON THE MATERIAL	Y	2						
	<u> </u>	Jy						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	W						
DOES THIS REQUIRE AN	<u>'</u>							
EXTRUSION REPORT	Y	0						
CUT SAMPLE PIEC				ND PREF		HARDNE	SS CHECK.	
			HRC	HRB		DUR A	DUR D	WEBSTER
TYPE OF MATERIAL SIZE OF TEST SAMPLE								
HARDNESS / DUROMETER READI		<u> </u>		45 - 0 - 114	045		L	
OR IN MODERATION	<u>to</u>	esters	located in	the Quality		ENGINEE	RING SIGNO	FF (if required
QC 18 INSPECTION						ENDINEE:	MING SIGNO	r (ii requireo

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

INSPECTED BY:

## RAL-112





Global Vietnam GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,

BA RIA VUNG TAU PROVINCE, VIET NAM

Tel:

+84(0)643924954

Fax:

+84(0)643924953

## MILL TEST CERTIFICATE

Date: May 21th, 2018

PALIZ

PO number: P-18198 Shipping Ref No.: 18-0959 LC No.: DC HMN811713 Date of issue: May 10, 2018 Item Code: 1065900

Item Code: 1065900 Die Number: D00186 Alloy & Temper: 6061-76

Production Description: ALUMINIUM EXTRUDED PROFILES

Round Bar 1-1/2" x 20' 6061-T6 D00186

Length (inch): 240

Bundle number: P-18198-067 Heat Number (SXF180601)

Date: 24/04/2018

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

	1		Ch.	3.7.0	Cu	Zu	1976	4.1	0	ther	Damandi.
Si	Mg	re	Cu	Mu	Cr	LII	11	Al	EACH	TOTAL	Kemark:
0.654	0.984	0.249	0.265	0.024	0.079	0.010	0.019	97.623	<0.05	<0.10	24/04/2018

### MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
39.6	35.3	10.4	21/04/2018

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TAM RIÉM NGHIÈM CÔRG LY TREH RHÔM THÂN CÂU VIỆT NAM GLOBAL VIETNAM ALGMINIUM CO LITOTESTING CENTER

heat: SXF 180 601

n REKORANT 1960, ADD B2118 B221 SPEC (ZN D8-1) CF 09 07 13
A NCW ISSUE

O 01 06 00 DATE DART AEROSPACE LTD
HAWKE BURY, ONTARIO CANADA
DRAWING NO.
M6061TGR ORAWN
CHECKED
MEG APPR
APPROVED
DE APPR
DATE
09.07.13 DESIGN

REV. B SHEET LOF 1

COPYRIGHT 0 2001 5Y DART ARROSPACE LYD

6061-T6 ROUND BAR

SPECIFICATION CONTROL DRAWING

a)

PURCHASE MATERIAL 6061-TO 1651/16510/16511/162 ALUMINUM ROUND BAR

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQA-200/8 (OR AMS 4160) OR ASTM B211 OR (ASTM B221)

PART NUMBER

M6061T6RID DDDI

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = M606116R0.625

SPECIFICATION:

0

U

MATERIAL: <u>M6061</u> DATE: <u>18/11/01</u>	768	21.5	<i>ე</i> ს			PO / BATCH	NO.: <u>POO41</u>	482/5,23406
MATERIAL CERT REC'D: Yes  QUANTITY RECEIVED: 154  QUANTITY INSPECTED: 0					THIC	KNESS ORDE KNESS RECEI ET SIZE ORDE ET SIZE RECEI	VED: /. 500°	
DESCRIPTION	NC (Che Y/I	eck				COMMEN	TS	
SURFACE DAMAGE	Y	(N)						
CORRECT FINISH	(Y)	N						
CORROSION	Y	0						
CORRECT GRAIN DIRECTION	V	N						
CORRECT MATERIAL PER M-DRAWING	V	N	ASIM	8221				
CORRECT THICKNESS	(Y)	N						
PHOTO REQUIRED	Υ	(2)						
CORRECT REF # TO LINK CERT	Y	N	M:	SXF18	0601			
CORRECT MATERIAL IDENTFICATION	Y	(N)						
CORRECT M# ON THE MATERIAL	Υ	(N)						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(N)						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N						
CUT SAMPLE PIECE			ERIAL A				SS CHECK.	
			HRC	HR	В	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL								
SIZE OF TEST SAMPLE								
HARDNESS / DUROMETER READII	VG							
QC 18 INSPECTION	<u>te</u>	sters	located in	the Qual	ity Offic		RING SIGNO	F (if required)

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SIGNED OFF BY:

DATE:

INSPECTED BY:

DATE: 18/11/01



# LB ALUMINIUM BERHAD



### MILL CERTIFICATE

CUSTOMER:			SECT	ON NO. : PEO	1419MF0	6100		DATE	 Apr-25-	2018
SALES ORDER NO:			WOR	ORDER:				ALLO	Y:	
187247	1				814346				6061-T	6511
PRESS NO. : 3300			EXTR	USION DA	TE: pr-20-201	18	7	CERT	TFICATE NO.: CN180:	
CUSTOMER PO NO. : P20781	5									
Section Sketch :								-		
				3"	**					
					5.20					
	14						\$4 			
	1 -						ļ Ņ			
							•			
CHEMICAL COMPOSI							1			
Composition	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Analysis Ref
Min	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00		0/10/
Max	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	Remainder	85186

Compliance with ASTM B22 M-07

We hereby certify that the material covered by this report has been varified or tested according to the safter standard sampling method or the requirements of any specifications or requirements described herein, and that sample representative of the material met the composition limits. Also, note that meroury is not a normal contaminant in aluminium alloys. Niether meroury nor any of its compounds are used in this manufacture of our extraction. This certificate comforms to 3.1, EN 10204.

\*\* This certificate of Analysis has been produced electronically and is valid without signature \*\*

Lot 11, Jalan Perusahaan 1, Kawasan Perusahaan Beranang, 43700 Beranang, Selangor Darul Ehsan, Malaysia. Tel: 603-8725 8822 (15 Lines) Fax: 603-8725 8828 (General), 8725 8833 (Sales), 8725 8866 (Export)

Enquiry@lbalum.com.my www.lbalum.com

Reat: CN1805548

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL 60617671651/16510(16511)762 ALUMINUM BAR

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS\_QQQ-2-200/8 (OR AMS 4160) OR ASTM B211 OR MSQM B221)

WHERE "T.TTT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES M6061T6B T TTT | X | WW.WWW WIDTH THICK

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED 2009 - 05- 03

REV. B B REMOVE DO.A.25001; UPTION REFORMAT WOTES, ADD CP 09 0/ 13 SHEET 1 OF 1 01 06 08 COPPRICHT Q 2001 BY DART ARROSPACE ITD DART AEROSPACE LTD
HAWKESBURY, ONTARIO CANADA 0.5 6061-T6 BAR M6061T6B DESIGN DS
DRAWN
CHECKED
APPR.
APPROVED
DATE 09.07.13

0

PART NUMBER:

(B)

SPECIFICATION.

MATERIAL CERT REC'D:  QUANTITY RECEIVED:	123407
QUANTITY INSPECTED:  QUANTITY REJECTED:  QUANTITY REJECTED:  DESCRIPTION  NCR (Check Y/N)  SURFACE DAMAGE CORRECT FINISH CORROSION CORRECT GRAIN DIRECTION CORRECT MATERIAL PER M-DRAWING PHOTO REQUIRED CORRECT REGUIRED CORRECT MATERIAL IDENTFICATION CORRECT MATERIAL IDENTFICATION CORRECT MATERIAL IDENTFICATION CORRECT MATERIAL IDENTFICATION CORRECT MATERIAL IDENTFICATION CORRECT MATERIAL REQUIRE ENGINEERING SIGN OFF DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF  DOES THIS REQUIRE AN	
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ENGINEERING SIGN OFF Y N/ DOES THIS REQUIRE AN	
CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.  RECORD RESULTS BELOW	WEDOTED.
HRC HRB DUR A DUR D V	VEBSTER
TYPE OF MATERIAL SIZE OF TEST SAMPLE	
HARDNESS / DUROMETER READING testers located in the Quality Office	

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: (8/11/01	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



FAL-16

52179 CA-50864 16671

## Global Vistnam GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN BI-CONAC INDUSTRIAL ZONE, MY XUAN WARD, PHU MY TOWN.

BA RIA-VUNG TAU PROVINCE, VIETNAM

Tel: +84(0)643924954 Fax: +84(0)643924953

### MILL TEST CERTIFICATE

Date: July 22th, 2018

PO number: P-18239 Shipping Ref No.: 18-1749 LC No.: DC HMN812691 Date of issue: July 18, 2018 Item Code: 1062500 Die Number: D00128

Alloy & Temper: 6061-T6

Production Description: ALUMINIUM EXTRUDED PROFILES

Flat Bar 1" x 6" x 144" 6061-T6 D00128

Length (inch); 144

Bundle number: P-18239-216 Heat Number: SXA180811

Date: 03/07/2018

Applicable Specifications: ASTM B221 STANDARDS

### CHEMICAL ANALYSIS: %

C\$	Mg	Fe	Co	Mn	C	Zn	Tri	AI	O	ther	Domani
ĢI	ivig	re	Cu	14414	(A	2.381	11	All	EACH	TOTAL	Remarki
0.653	0.988	0.218	0.242	0.015	0.056	0.012	0.021	97.687	<0.05	<0.10	30/06/2018

#### MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
41.79	36.55	10.8	30/06/2018

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIỂM NGHIỆM CÔNG TY TNHH NHÔM TOÀN CÂU VIỆT NAM GLOBAL VIETNAM ALUMINIUM CO., LTD TESTING CENTER

Heat SXA180811

RELEASED 2009-05-03

REW NEWISSUE TRECHION REFORMATINOTES ADD (CP 09 07 13 ACM BZT 1821 (2N D7 13) A NEWISSUE TRECHION BY DATE DESIGN OF ON THE CHORD OF THE CHECKED A NEW SHOWN ON THE CHECKED A NEW SHOWN ON THE CHECKED A NEW SHOWN ON THE CHECKED A NEW SHOWN ON THE CHECKED A NEW SHOWN ON THE CHECKED A NEW SHOWN ON THE CHECKED A NEW SHOWN ON THE CONTINUE OF THE CONTINUE

PURCHASE MATERIAL (6061-T6) T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION CONTROL DRAWING

C

SPECIFICATION

**(0)** 

(IAL) 6061-76/1651/76510/76511/762 ALUMII QQ-A-225/8 OR AMS-QQ-A-225/8 (OR)

00-A-225/8 OR AMS-00-A-225/8 (OR AMS 4117/4128/4115/4116) OR 00-A-200/8 OR AMS-06-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

PART NUMBER:

M806178B] T.TTT X WW.WWW
THICK WIDTH
WHERE "T.TT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

 $\circ$ 

MATERIAL: M606/17			× 06.000		PO/B	ATCH N	0.: [00414	82/5 (23.77)
MATERIAL CERT REC'D:				THI	ICKNESS (	ORDER	ED: 1.000 "	
QUANTITY RECEIVED: 364+							ED: 1. 000 Y	
QUANTITY INSPECTED: 364							ED:	
QUANTITY REJECTED:				SHE	EET SIZE F	RECEIVE	ED:	
DESCRIPTION	,	eck			COM	IMENTS	3	
OUDS DAMAGE		N)					<del></del>	
SURFACE DAMAGE	(Y)	N						
CORRECT FINISH	Y	(N)						
CORROSION  CORRECT GRAIN DIRECTION	(Y)	N						
	(Y)	N	HiTM	221				
CORRECT MATERIAL PER M-DRAWING	Y	N	14) [10]	8 201			•	
CORRECT THICKNESS	Y	(N)						
PHOTO REQUIRED  CORRECT REF # TO LINK CERT	(Y)	N	Idicy	A 180811				
CORRECT MATERIAL IDENTFICATION		N)	PI. O.	71 100011			-	
CORRECT M# ON THE MATERIAL	Y	N						****
	<u>'</u>	(1)						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	W						
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(A)						
CUT SAMPLE PIEC			TERIAL AN			RDNES	S CHECK.	
			HRC	HRB	DUF	RA	DUR D	WEBSTER
TYPE OF MATERIAL								
SIZE OF TEST SAMPLE								
HARDNESS / DUROMETER READI	NG							
	to	esters	located in ti	he Quality O	ffice			

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: (8/11/01	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Order No.

CAL- 58

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			•	1153	50	29	/Sep/	16
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4054, BOUL. LE CORBUSIER  #201 LAVAL, QC	22, BO	UL. J-F KENNE ROME, QC J7Y		NO COMMANDE CLIENT OU-465 CHAUFFEUR:		REPRÉSENTA Guillaur NO COMMAN	ne Mori	in
H7L 5R2 NO CLIENT: 3693		NO CLIENT: L		JIMMY AYOTT	E		10065	5
NO. INO DE FILIÈRE NO PIÈCE GLIENI DESCRIPTION LITEU.	A MONGOEVR	AFINITION :	ReleANINANIDEGELENII NESITEELES AILOS	AVĖNIE Neuglienies nigos	มีเข้าสดให้สำเ มีโรมสะเอสรา			Š
31 SA00504 TIGE CARREE 5/8" 6061/T6	6096mm	NATUREL MILL	121 500	0 0 100655-31-1A1	383897	158	654	100.0%
		FORT CON		Sous-Total:	1	158	654	

<b>Mill Test</b>	(Tensile	Properties of	Aluminum)

Hardness (Webster)

Test Date.: 26/Sep/16

*						1 101 201011 20100	la. La		
Order No.	Alloy	Temper	Yield (ksi)	Ultimate Tensile (ksi)	Total Elongation (%)	Hardness (Rockwell E)	Conductivity %	Report No.	
100655-31-1A1	6061	T6	38.2	42.6	15.80	91.70		6178	

### Certificate of compliance (Certificat de conformité)

Normes: (ANSI H35,1-1997) & (ASTM B221)

	#1	#2	Gast 110.	OAGI OHE	MICHAL	COM	OSITIO	J14,														
100655-31-1A	1.5	15	(34021)	Al	Si	Fe	Cu	Mn	Mg	Cr	Νī	Zn	Ti	Ga	V	В	Zr	Bi	Pb	Sn	Sr	-
1 - 1 - 1 - 1															-	-						_

97.97 | 0.58 | 0.21 | 0.20 | 0.08 | 0.86 | 0.05 | 0.00 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | AVISER SANS FAUTE JOCELYN NADEAU 24 HEURES AVANT LA LIVRAISON POUR CONFIRMER AVEC LE CLIENT ATT. EMBALLAGE (POUR ACIER PICARD VARENNES SEULEMENT): DIMENSIONS MAXIMALES DES BUNDLES 22" x 1 TOTAL EN LIVRAISON:

ATT. PACKING (FOR ACIER PICARD VARENNES ONLY): BUNDLES MAXIMUM DIMENSIONS 22" x 15"

VÉRIFICATION DE MATÉRIEL

VÉRIFIÉ PAR

SIGNATURE

**SIGNATURE** CLIENT: SPECIFICATION CONTROL DRAWING

RELEASED 2009 - 05- 03.

ER: M6061168 T.TTT X WW.WWWW | WIDTH | WIDTH | WHERE "T.TTT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES

QO-A-225/8 OR AMS-OO-A-225/8 (OR AMS 4117/4128/4115/4116) OR QO-A-200/8 OR AMS-OO-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221-

PURCHASE MATERIAL (6061-TB) 651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

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(B)

PART NUMBER:

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

MATERIAL: M6061						PO / BATCH	100:: <u>60041</u>	482 /5/23408
DATE: 18/1/01		-						
MATERIAL CERT REC'D: Ves					THICK	NESS ORDE	RED: ().625	
QUANTITY RECEIVED: 124					THICK	NESS RECE	IVED: 0-625	CC
QUANTITY INSPECTED: /15+					SHEE	T SIZE ORDE	RED:	
QUANTITY REJECTED:						SIZE RECE		
QUANTITY REJECTED.					SHEE	SIZE NEOL	IVED.	
			,					
	NO					00141451	T-0	
DESCRIPTION		eck N)				COMMEN	IS	
SURFACE DAMAGE	Υ	(A)						
CORRECT FINISH	W	N						
CORROSION	Y	D						
CORRECT GRAIN DIRECTION	X	N	0000	4 >				
CORRECT MATERIAL PER M-DRAWING	Y	N	ASTM	B 221				
CORRECT THICKNESS	A	N						
PHOTO REQUIRED	Y	0	1111	. 4				
CORRECT REF # TO LINK CERT	(A)	N	U7: 3	14071				
CORRECT MATERIAL IDENTFICATION	-	Ŋ						
CORRECT M# ON THE MATERIAL	Υ	N		-				
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	0						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(N)						
CUT SAMPLE PIEC	E OE	N/A"	TERIAL A	ND PRI	FEORN	A HARDNE	SS CHECK	
COT SAMI LETTES			ORD RES				LOG OF ILORG	
	-		HRC	HF		DUR A	DUR D	WEBSTER
TYPE OF MATERIAL								
SIZE OF TEST SAMPLE							1	
HARDNESS / DUROMETER READI	NG							
TO THE PERSON DOTTON ETER TREATMENT		esters	located in	the Qual	ity Office	2	1	
	40				, ,,,,,,			
QC 18 INSPECTION						ENGINEE	RING SIGNOI	FF (if required)
INSPECTED BY:					SIGN	ED OFF BY		
MORECIED BI.					01011	יום טוו טו	•	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

DATE:

DATE: /B/11/01

5/3W/

MILL TES	<u>ST</u>															_			ER N	NO.	M	ANIFES	T NO.
BILL TO				3.5	CERT 9	CODE:			DIE NUME S	4770		eb/22					214399	-	6			386	480
SHIP TO				. 437	cus C7	TOMER PO			6061	TEMP1	-	ETER		SHM	AKOV				DE IN	CA	NAL	DA	
SO DESCRIPTION 2.5" SQ	N				cus	TOMER PA	RT NUMBER	}	PART DE	CRIPTION Q						1	STM B2	21,14	- AMS	QQA	200	/8	
										RO4	1621	:/				[5	Samuel st	nd sh	apes				
Mechanica	al Prope	erties																		0		to all his a	
Lot		Alloy				Tes	t Date	Ţ	Jitimate Strengt		Ylek	Stren	gth (SI)	El	<u>Perce</u> ongati	ion	Hardnes Rockwel	IF		Cor	nduct	IAICA	
A.11		6061				Feb	/15/2018			42.00		3	9.20		9	.80	85.8,86.1	1,86.4					
Chemical				5.	C	Mn	Mg	Cr	Ni	Zn	7	'i Ga	1	Υ	В	Zr	Bi	Pb	Sn	Sr	Ço	Al	Othe
Cast Number		Alloy 6061	<u>Sj</u> 0.54	<u>Fe</u> 0.203	<u>Cu</u> 0.2	0.0599		0.059			0.022			0	0	0	0	0	0	0	0	Remainde	r

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

Tulsiram Mohabir Quality Control Manager Keat: 39334

R 2009 -05- 05

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SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL (606) 16/1651/1651/1/1651/1/162 ALUMINUM BAR SPECIFICATION: QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 417/4128/4115/4116) OR QQ-A-200/8 OR AMS-QG-A-200/8 (OR AMS 4160) OR ASTM B211 OR ASTM B221

PART NUMBER:

**(0)** 

M6061T6B T.TTT X WW.WWW

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

WHERE "T.TTT" = THICKNESS IN INCHES "WWW WWW" = WIDTH IN INCHES

MATERIAL: M6617 DATE: 18/11/01	66:	2-50	0×2.500		PO / BATCH I	NO.: <u>POD414</u>	182/5434
MATERIAL CERT REC'D: Ks					CKNESS ORDER		
QUANTITY RECEIVED: 64				THIC	KNESS RECEIV	/ED: 2.500	. (
				CHE	ET SIZE OPDE	ED:	
QUANTITY INSPECTED: 61+				SHE	ET SIZE ORDER		
QUANTITY REJECTED:				SHE	ET SIZE RECEIV	/ED:	
DESCRIPTION		CR eck			COMMENT	·s	
	Y/	N)					
SURFACE DAMAGE	Y	(N)					
CORRECT FINISH	(Y)	N					
CORROSION	Y	N					
CORRECT GRAIN DIRECTION	(Y)	N					
CORRECT MATERIAL PER M-DRAWING	W	N	ASTM	Balli			
CORRECT THICKNESS	Y	N					
PHOTO REQUIRED	Y	W					
CORRECT REF # TO LINK CERT	B	N	M1: 39	334			
CORRECT MATERIAL IDENTFICATION	Y	N)					
CORRECT M# ON THE MATERIAL	Y	(N)					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(N)					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	M					
CUT SAMPLE PIEC			ORD RESI	JLTS BELO	W		T WEBSTER
			HRC	HRB	DUR A	DUR D	WEBSIER
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE		-				-	
HARDNESS / DUROMETER READI							
	t	esters	located in t	he Quality Of	ice		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

ENGINEERING SIGNOFF (if required)

DATE:

SIGNED OFF BY:

QC 18 INSPECTION

INSPECTED BY:

### CERTIFICATION DU MATÉRIEL

CLIENT:

ACIER OUELLETTE INC DIV.DE

SALABERRY-DE-VALLEYFIELD

935 BOUL DU HAVRE

SALABERRY-DE-VALLEYFIELD, QUEBEC

QC J6S 5L1

NUMÉRO DE COMMANDE:

15036615 000020

COMMANDE DU CLIENT:

ac00019994 20

NUMÉRO DE PIÈCES:

2440

NUMÉRO DE LIVRAISON:

803899617 000020

NUMÉRO D'ARTICLE:

160001395

DESCRIPTION INVENTAIRE:

FLT EXT 6061 T6511 1.5 X 2 X 144

DESCRIPTION ARTICLE FINIS: ALUM Barre PLTE EXT 6061 T6511

1.5po X 2po X 144po

NUMERO (S) DE COULÉE

BRAME / BOBINE / TIN (le cas échéant)

17184871A

76763

#### CERTIFICATION

Un sondage de nos sources matérielles a indiqué que ni le mercure ni des substances radioactives ne sont introduits dans leurs produits ni ne sont utilisés dans aucun de leurs procédés. Alors que nous ne faisons aucun test indépendant pour le mercure ou la radiation, il n'y a rien dans le système rrait entraîner la contamination de l'un ou l'autre type.

Ce document certifie que le matériel décrit ci-dessus a été expédié conformément à votre commande. Le producteur du matériel a certifié ? qu'il a été produit conformément aux spécifications suivantes:

ASTM B221

Thomas Endres

Vice-président - Approvisionnement

09/26/2018



# FAL- 1122

## Material Test Report

52234

Manifest: 717456

<u>Ticket:</u> 1755539

Our Order: 882322 - 1

Cust P.O.: 4500853606

Die: ES05978

Part: 160001395

Alloy Temper: 6061 T6511

Description: 1.500 x 2.000

Print Date: 1/31/18

				Ch	emical	Compos	ition Ra	nge		
6061	<u>Si</u>	<u>Fe</u>	Cu	Mn	Mg	Cr	Zn	<u>Ti</u>	OtherEach	Other Total
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

				ical Proper rength ksi	ties		
Sample ID	Cast #	Lot#	Test Date	<u>Ultimate</u> <u>Tensile</u>	Yield 2% offset	Elongation 2" gage length	
76763	17184 <b>8</b> 71A	All	1/14/18	45.50	41.74	17.0	

Applicable Specifications: ASTMB221-14

AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

heat: 17184871A

Evan Eng, Quality Assurance Manager

RELEASED 2009 - 05- 03

1/24 Con 2000

PURCHASE MATERIAL (606) TOTGS1 (76510) (651) 1/162 ALUMINUM BAR

SPECIFICATION CONTROL DRAWING

**⊗** 

SPECIFICATION:

QQ-A-22008 OR AMS-QQ-200/8 (OR AMS 411/4128/4115/4116)
OR ASTM B211 OR R STM B221

PART NUMBER:

M6061T6B T.TTT X WW.WWWY
THICK WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

MATERIAL: M1.0617  DATE: 18/11/01		500	PO/BATCH NO.: (004)1482/51234/0
MATERIAL CERT REC'D: 12.1+ QUANTITY INSPECTED: 12.1+ QUANTITY REJECTED: 1			THICKNESS ORDERED: 1.500"  THICKNESS RECEIVED: 1.500"  SHEET SIZE ORDERED: —  SHEET SIZE RECEIVED:
DESCRIPTION	NC (Ch Y/	eck	COMMENTS
SURFACE DAMAGE	Υ	N	
CORRECT FINISH	(Y)	N	
CORROSION	Y	N	
CORRECT GRAIN DIRECTION	Y	N	
CORRECT MATERIAL PER M-DRAWING	D	Ν	ASTM BUSI
CORRECT THICKNESS	D	N	
PHOTO REQUIRED	Υ	0	
CORRECT REF # TO LINK CERT	(3)	N	LIT: 17184871A
ORRECT MATERIAL IDENTFICATION	Υ	N	
CORRECT M# ON THE MATERIAL	Υ	M	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK.								
RECORD RESULTS BELOW								
	HRC	HRB	DUR A	DUR D	WEBSTER			
TYPE OF MATERIAL								
SIZE OF TEST SAMPLE								
HARDNESS / DUROMETER READING								

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if req	uired)
INSPECTED BY:	A	SIGNED OFF BY:	
DATE:	18/11/01	DATE:	

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

5/860

## Material Test Report

Manifest: 336848

Ticket: 5585837

Our Order: 883277 - 11

Cust P.O.: C75492

Die: ES05977

Part: V832381 /

Alloy Temper: 6061 T6511

Description: 2.000 x 3.000

Print Date: 3/5/18

R119183

	Chemical Composition Range										
6061	<u>Si</u>	<u>Fe</u>	Cu	Mn	Mg.	<u>Cr</u>	Zn	<u>Ti</u>	OtherEach	OtherTotal	
1in	0.40		0.15		0.8	0.04					
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15	

				rical Proper Trength ksi	ties	
Sample ID	Cast #	Lot#	<u>Test</u> <u>Date</u>	<u>Ultimate</u> <u>Tensile</u>	Yield 2% offset	Elongation 2" gage length
77967	(18020701B	A11	2/26/18	41.89	39.57	12.3

Applicable Specifications: ASTMB22 14

AMS-QQ-A200/8A

Country of Origin: ONTARIO, CANADA

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.

Evan Eng, Quality Assurance Manager

heat. 18020701B

RELEASED 2009-05-03

DATE 09.07.13

SPECIFICATION: 00-A-225/8 OR AMS-00-A-226/8 (OR AMS 4117/4128/4115/4116) OR 00-A-200/8 OR AMS-00-A-200/8 (OR AMS 4160) OR ASTM B211 OR (ASTM B22T)

**©** 

PURCHASE MATERIAL 6061 18/1661/16510(16511) 162 ALUMINUM BAR

C

SPECIFICATION CONTROL DRAWING

PART NUMBER:

M6061T6B T.TTT X WW.WWWY

WHERE "T.TT" = THICKNESS IN INCHES "WW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

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MATERIAL: M6061  DATE: 18/11/01		B2.0	70×3.000	PO/BATCH NO .: PODUIY82/51234						
MATERIAL CERT REC'D: 46					THICKI	NESS ORDE	RED: 2,డు"			
QUANTITY RECEIVED: 124					VED: 2.000"					
QUANTITY INSPECTED: 124+				SIZE ORDE	name of the last o					
QUANTITY REJECTED:					SHEET	SIZE RECEI	VED:			
DESCRIPTION	NC (Che	eck				COMMEN	TS			
SURFACE DAMAGE	Υ.									
CORRECT FINISH	(Y)	N								
CORROSION	Y	W								
CORRECT GRAIN DIRECTION	8	N								
CORRECT MATERIAL PER M-DRAWING	8	Ν	ASTM 1	321						
CORRECT THICKNESS	(8)	N								
PHOTO REQUIRED	Υ	N)								
CORRECT REF # TO LINK CERT	(Y)	N	MT: 180	207016	3					
CORRECT MATERIAL IDENTFICATION	Y	(N)								
CORRECT M# ON THE MATERIAL	Υ	(N)								
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	0		_						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N								
CUT SAMPLE PIECE		REC	ORD RESU	ILTS BE	LOW					
			HRC	HRE	3	DUR A	DUR D	WEBSTER		
TYPE OF MATERIAL										
SIZE OF TEST SAMPLE										
HARDNESS / DUROMETER READI		L								
	te	esters	located in th	ie Qualit	Office					

DATE: 18/11/01 DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY: \_\_\_\_\_\_ SIGNED OFF BY: \_\_\_\_\_

AAL-1118

51328

CA 50159 12928



Global Vietnam GLOBAL VIETNAM ALUMINIUM COMPANY LIMITED

Address: MY XUAN B1-CONAC INDUSTRIAL ZONE, MY XUAN TOWN, TAN THANH DISTRICT,

BA RIA VUNG TAU PROVINCE, VIET NAM

Tel: +84(0)643924954 Fax:

+84(0)643924953

### MILL TEST CERTIFICATE

Date: April 26th, 2018

PO number: P-18057 Shipping Ref No.: 18-0817 LC No.: DC HMN811301 Date of issue: April 10, 2018 Item Code: 1022600 Die Number: D00580

Alloy & Temper: 6061-T6

Production Description: ALUMINIUM EXTRUDED PROFILES

Angle 1.0"x0.125"x 20' 6061-T6 D00580

Length (inch): 240

Bundle number: P-18057-021,P-18057-022

Heat Number SXF180280

Date: 03/03/2018

Applicable Specifications: ASTM B221 STANDARDS

CHEMICAL ANALYSIS: %

) acceptable 9/18/11/1

	Si	Mg	Fe	Cu	Mn	C.	Zn	Ti	Al	0	ther	Domests
				Cu	IVIII	Cr	Zu	11	ALI	EACH	TOTAL	Remark:
	0.575	0.911	0.228	0.242	0.016	0.100	0.084	0.017	97.741	<0.05	<0.10	28/02/2018

#### MECHANICAL ANALYSIS:

Ult. Strength (ksi)	Yield Strength (ksi)	Elongation % LN 2"	Remark:
41.6	36.8	10.6	28/02/2018

All profiles, showing material shipped match aluminium alloy as per standard, with chemical analysis to match aluminium alloy standard.

We hereby certify that the item listed have been checked and tested in accordance with the specifications noted and have been found to meet all the applicable requirements. Certifications are kept on file for 36 months from the date of purchase and are available for review upon request, referring to ASTM and the PO number.

Quality Manager



TRUNG TÂM KIẾM NGHIỆM CÔNG TY TNHH NHÔM TOÀN CẦU VIỆT NAM GLOBAL VIETNAM ALUMINIUM CO., LTD TESTING CENTER

Treat: SXF/180280

July 11.50.80

PURCHASE MATERIAL (6061-TRAF6510/T6511 ALU MINUM ANGLE PER AMS-QQ-A-200/8

PART NUMBER:

M6061T6A HHHIXIWWWW

HEIGHT THICKNESS

WHERE HHH = HEIGHT WWW = THICKNESS

E.G. 0.75" X 0.75" X 0.125" = M6061T6A750XW125

DART AEROSPACE LTD
DRAWN

DART AEROSPACE LTD
HAWKESBURY, ONTARO, CANADA
CHECKED

MFG APPR.

MFG APPR.

TITLE
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SHEET 1 OF 1 REV. B

NTS

AJS 08.03.06 MB 08.02.14 BY DATE

B PART NUMBER CALL OUT REWRITTEN
A NEW ISSUE

DESCRIPTION

KEV

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SPECIFICATION CONTROL DRAWING

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B

MATERIAL:	176	AL	0000.115		PO / BAT	CH NO.: <u>Poo</u>	41482/512341.			
MATERIAL CERT REC'D: 45  QUANTITY RECEIVED: 204  QUANTITY INSPECTED: 204  QUANTITY REJECTED: 20				THICKNESS ORDERED: / O 30 ('  THICKNESS RECEIVED: / O 30 ('  SHEET SIZE ORDERED: —  SHEET SIZE RECEIVED: —						
DESCRIPTION	NC (Chi	eck			СОММ	ENTS				
SURFACE DAMAGE	Y	N								
CORRECT FINISH	(Ŷ)	Z								
CORROSION	Y	N								
CORRECT GRAIN DIRECTION	X	N								
CORRECT MATERIAL PER M-DRAWING	(X)	N								
CORRECT THICKNESS	Y	N								
PHOTO REQUIRED	Y	(1)								
CORRECT REF # TO LINK CERT	(X)	N								
CORRECT MATERIAL IDENTFICATION	Ÿ	0								
CORRECT M# ON THE MATERIAL	Υ	12								
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	8	N	See	cert						
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	R								
CUT SAMPLE PIECE						NESS CHECK				
	F	REC		ULTS BELO		DUDD	LWEDCTED			
TYPE OF MATERIAL			HRC	HRB	DUR /	A DUR D	WEBSTER			
TYPE OF MATERIAL		_								
SIZE OF TEST SAMPLE HARDNESS / DUROMETER READI	NG									
MANDINESS / DUNOWIETEN READI		store	located in	the Quality O	ffice					
	25	sters	nocated in a	ine Quanty O	mee					
QC 18 INSPECTION			27		ENGIN	EERING SIGN	OFF (if required)			
INSPECTED BY:			_	SI	GNED OFF	BY:				
DATE: /8/16/01			DATE:							

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

52315



CERTIFICATION

CERTIFICATE H189388 DATE 09/20/18 PAGE 6

PURCHASE ORDER B41750

ORDER 980460-1

CUSTOMERITEM V015422

ITEM 144000240Q04A

GRADE QT4140

SHAPE Round

SIZE 4.0000

SIZE MM 101.6000 MM

LENGTH 20' 0"/24' 0"

LENGTH MM 6096 / 7315.2

4140/42 VD-CA/AL-TRT QT-HR-STRESS FREE 115K TS 95K YS (.02% 90K) 16% EL 50% R/A SURFACE HBN 269/321 Spec/Rev: Spec/Rev: ASME SA193/SA193M GR-B7 Spec/Rev: ASTM A193/A193M-14 GR-B7 Spec/Rev: QSTM A29/A29M-16 Spec/Rev: ASTM A34/A434M-15 CL-BC

H	EAT		GRAI	N PRAC	TICE		SOUR	CE / MELTER				CAST	REC	UCTION RATE	0	Di
(C	1492	271	F	NE(5-	8)	S	TEEL D'	YNAMICS	(USA	)		BLOOM		11.1:1	9	5.76
CHEMIST	RY-										1, 1					3.70
С		MN		Р	S		SI	NI		CF	2	MO	CU		L I	V
0.400		0.87	0	.009	.01	6	0.240	0.2	10	0.960		.210	.260		26	.001
N	1		TE		AS	T	P	В	_	SE	T	Bi	-	В	7	NB
.00	80		N/A		NIA		.0	01		N/A		N/A		.0003		.0010
MECHANK	CAL										7					
JC	ЭВ		TEN	SILE	.2	% YIELD		ELONG		ROFA		HARDNES	3	2% YIELD	1 6	R TEMP
HS4	8233	3	146,47	12 PS!	124	398 PSI		17.60	_	54.90		BN = 31		108,943	- 3	RIEMP
QUENCH 8	L-TEN	MPER .			:	٠.							•	100,343	1	
JOB			MACRO		SURFACE		P	USTENITIZE	D			TEMPER	FD	1	STRESS	
		-				TEMPE	RATURE	TIME	QU	ENCH	TEMPERA		TIME	TEMPERA		TIME
HS4823	3	SATIS	FACTO	RY	HBN = 311	1650	=	3.2 HRS	WAT	ER	1150F		6.1 HRS		SFREE	Time
ARDENA	BILIT	ΓY									:	-				
01		02	03	04	05	06	08	10		12	14	16	20	24	28	32
56	5	56	56	56	56	56	56	53		49	50	47	46	45	43	39
OT						<del></del>									1	
LOT			JOB		WEIGHT (	LBS)	PIECES			LO	T		ОВ	WEIGHT (	l Der	DIFOR
5760048	8	H	S48233		7,735		8							**21311 (	resi	PIECES

WE, hereby certify that these goods were produced in compliance with all applicable requirements of sections 6, 7, and 12 of the Fair Labor Standards Act, as ameneded, and all regulations and orders of the United States Department of Labor issued under section 14 thereof. Material was not exposed to mercury or any metal alloy that is liquid at ambient temerature during processing or while in our possession. No weld repairs performed on the above material.

CERTIFICATE OF TEST

Walter P. Kretzler - Director of Q.A./Chief Metallurgist

Reat: C149271

FRACTIONS 110 ANGLES 151 SURFACE ROUGHNESS BY APPROVED VM MI. | DEGORED BY | VAL 1712/13 | ONLINEARS A LICENTRIANO OSCINGE BY | VAL 1712/13 | ONLINEARS | FRACTORS 2 19 |
ONLINE BY | VAL 1717/2017 | XXX 2 14 | MIRES 3 5 |
OFFICE BY | VAL 1717/2017 | XX 2 14 | SHRETTOR 2 19 |
APPROVED BY | VAL 172/2017 | XX 2 14 | SHRETTOR 3 |
APPROVED BY | VAL 172/2017 | XX 2 14 | SHRETTOR 3 |
APPROVED BY | VAL 172/2017 | XX 2 14 | SHRETTOR 3 |
APPROVED BY | VAL 172/2017 | XX 2 14 | SHRETTOR 3 |
APPROVED BY | VAL 172/2017 | XX 2 14 | SHRETTOR 3 |
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APPROVED BY | VAL 172/2017 | XX 2 14 |
APPROVED BY | VAL 172/2017 | XX 2 14 |
APPROVED BY | VAL 172/2017 | XX 2 14 |
APPROVED BY | AISI 4140 ROUND BAR DART MT-4140-R 17.12.13 DATE 17-790 ECN # かんだい DESCRIPTION NEW ISSUE ASTM A29, AMS 6349, AMS 6382, AMS 6529 MT-4140-R-[0.DDD] WHERE "D.DDD" = DIAMETER IN INCHES REV. SPECIFICATION CONTROL DRAWING EX. 4" ROUND BAR = MT-4140-R-4.000 PURCHASE MATERIAL: AIS(4140) ROUND BAR MINIMUM ROCKWELL G = 20 Ro MAXIMUM ROCKWELL C = 38 Rc SPECIFICATION: PART NUMBER: 80

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MATERIAL: M7-4  DATE: 18/11/01	1400	27-1	24.000		PO / BATCH N	O.: Pagy 14	182/5123413
MATERIAL CERT REC'D: Ves QUANTITY RECEIVED: VET QUANTITY INSPECTED: VET QUANTITY REJECTED:				THI	CKNESS ORDERE CKNESS RECEIVE EET SIZE ORDERE EET SIZE RECEIVE	D: 4.000"	
DESCRIPTION	NC (Ch Y/	eck			COMMENTS	3	
SURFACE DAMAGE	Υ	N					
CORRECT FINISH	Y	Ν					
CORROSION	Υ	0					
CORRECT GRAIN DIRECTION	8	N					
CORRECT MATERIAL PER M-DRAWING	M	N	ASTM	Dig			
CORRECT THICKNESS	Y	N					
PHOTO REQUIRED	Υ	N					
CORRECT REF # TO LINK CERT	B	N	M. CI	44271			
CORRECT MATERIAL IDENTFICATION		(N)					
CORRECT M# ON THE MATERIAL	Y	N)					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(Ñ)					
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	3					
CUT SAMPLE PIEC				ID PREFO		S CHECK.	
		_	HRC	HRB	DURA	DUR D	WEBSTER
TYPE OF MATERIAL							
SIZE OF TEST SAMPLE							
OIZE OF TEOT OF WITH EE	ING	-					

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	A	SIGNED OFF BY:
DATE: /8	3/11/01	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

CEATIFICATE OF TEST, 9268

RSS-34174

Page 01 of 02 tification Date

> Invoice Number T373050

10,11395

OC J6:

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT

AC00011395 PART NUMBER/NUMÉRO DE PIÈCE

510517

SOLD TO: VENDU À: ACIER OUELLETTE INC.

SHIP TO: DIVISION SALABERRY DE VAEXBERDEELD

935, BOUL. DU HAVRE

ACIER OUELLETTE INC.

DIVISION SALABERRY DE VALLEYFIELI

935, BOUL. DU HAVRE

SALABERRY-DE- VALLEYFIELD OC J6S 5L1SALABERRY-DE- VALLEYFIE

Description: (17-4 SOL ANN CF BAR

3/4 RD 3 12' R/L

(ASTM A564)

Line Total: 185

Specifications:

AMS 5643 U ASTM A388/A388M 16

HEAT: 9SG0264-G5011

ISO 15156-1 09\* EN 10204 3.1 ASTM E340

ASTM A564 T630 13

ITEM: 510517

AMS 2303 F \*EXCEPT FOR H2S ASTM F899 12B

AMS 2315

ASME SA564 T630 13

NACE MR0175 09 CORROSION TEST) API 6A APPENDIX M

ASTM E112

CHEMICAL ANALYSIS

C	SI	MN	P	S	NI	CR	MO
0.01	0.34	0.62	0.017	0.003	4.69	15.35	0.23
	NBTA 0.27		TA 0.005				

RCPT: R201370

COUNTRY OF ORIGIN : TAIWAN

MECHANICAL PROPERTIES

YLD STR ULT TEN %ELONG %RED HARDNESS IN AREA BHN DESCRIPTION 321 COND A ULT TEN %ELONG %RED HARDNESS YLD STR KSI KSI IN 02 IN IN AREA DESCRIPTION 17.0 53.0 428 201.0 DEV: H900 L 182.0

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. ./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifique que le matériel couvert par ce rapport tenentue les specifications décrites ci-

ourn hierkrain

MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

60264-65011

# **CERTIFICATE OF TEST CERTIFICAT D'ESAIS**

Page 02 of 02

Certification Date 27-NOV-2017

CUSTOMER ORDER NUMBER NUMÉRO DE COMMANDE DU CLIENT

AC00011395

Invoice Number T373050

PART NUMBER/NUMÉRO DE PIÈCE 510517

ACIER OUELLETTE INC.

DIVISION SALABERRY DE VALLSHIFTOLD

ACIER OUELLETTE INC.

DIVISION SALABERRY DE VALLEYFIEL!

SOLD TO: VENDU À: 935, BOUL. DU HAVRE

EXPÉDIÉ À:

SALABERRY-DE- VALLEYFIELD OC J6S 5L1SALABERRY-DE- VALLEYFIE

935, BOUL. DU HAVRE

OC J61

Description: 17-4 SOL ANN CF BAR

ASTM A564

3/4 RD X 12' R/L

Line Total: 185 LB

HEAT: 95G0264-G5011

ITEM: 510517

GRAIN SIZE :8 -

MATERIAL IS FREE FROM MERCURY CONTAMINATION NO WELD REPAIR PERFORMED ON MATERIAL

ULTRASONIC: YES

THERMAL TREATMENT: OK

SOLUTION TREATMENT: 1900 +/-25 DEG F FOR 30 MIN/INCH (MINIMUM OF 1/2 HOUR), RAPIDLY COOLED TO BELOW 90

DEG F

MACRO: OK MICRO1: OK AMS NO :2303 SEVERITY : 0.0 FREOUENCY: 0.0

COMMENTS

red. ratio 279.6:1

17-4 is the same with aisi 630 free from residual radioactivity

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcrites du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in sontest with mercans while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites cihaut.

> MANAGER QUALITY ASSURANCE GÉRANT DE L'ASSURANCE QUALITÉ

orna haufrei

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 0

(174 PH / S17400 / TYPE 630 SS ROUND BAR SPARIN MUST BE ALLONG LENGTH OF BAR MINIMUM YIELD STRENGTH PER TABLE MINIMUM ULTIMATE STRENGTH PER TABLE

AMS 5643 ORASTM A564

0

MATERIAL CONDITION TABLE:

MIN ULTIMATE TENSILE STRENGTH (KSI)	150	30	70	35	145	10	35	
MIN UL TEN STRENG	7	16	-	1	16	7	-	And reflect sources or an angle of
MIN YIELD TENSILE STRENGTH (KSI)	100	170	155	145	125	115	105	alter dans is statut berever oranne menomengalak dependente eripere system er system signifikation og den eripere erip
CONDITION	NONE SPECIFIED (CONDITION A NOT ACCEPTABLE)	H900	H925	H1025	H1075	H1100	H1150	(SOLUTION TREATED)
CODE	(OMITTED)	H900	H925	H1025	H1075	H1100	H1150	CONDA

NOTES: MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR TENSION OR SHEAR APPLICATIONS IN COLD WEATHER CONDITIONS

MATERIAL IN H900 AND H925 CONDITION NOT RECOMMENDED FOR APPLICATIONS WHERE STRESS CORROSION CRACKING IS POSSIBLE

CONDITION A NOT TO BE USED IN DESIGN FOR FINAL PRODUCT AND SHOULD ALWAYS BE HEAT TREATED

**EXAMPLES**:

PART NUMBER M17-4-R4 000 M17-4-H900-R2,500 M17-4-H1025-R3,250 M17-4-CONDA-R0,750 PART 4.00° DIAMETER BAR MIN UTS = 150 KSI, MIN YTS = 100 KSI 2.500° DIAMETER BAR H1025 CONDITION 3.250° DIAMETER BAR H1025 CONDITION 0.750° DIAMETER BAR A CONDITION DELEASED 13 2017-10-31 6 ELMI7-728

05

SCALE REV. C MTS SHEET 1 OF 1 05.03.16 DART AEROSPACE LTD DRAWING NO. MITARIO, CANADA MITA-R. MITA-R. CP UP 17-4 SS ROUND BAR DESCRIPTION TITLE 0 0 0 8 W 17.09.14 APPROVED MFG. APPR. CHECKED DE APPR. REV DRAWN **APPROVED** 

17.09.14 \$0.05.20

ON 82

ADDED MATERIAL CONDITION (CIRT7-107)

18 FORMAT DWG, STAGOGYTPE, 80R ADDED TO

REF DAN 60-020A

REF PAR 60-020A

NEW ISSUE

**60** 

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M17-4- HHHHH- R X.XXX WHERE: HHHHH SPECIFIES THE MATERIAL CONDITION (PER TABLE BELOW)

PART NUMBER:

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SPECIFICATION:

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MATERIAL: <u>Μ (7-9</u> DATE: <u>(8/μ/</u> 2		750	PO / BATCH NO.: \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2
MATERIAL CERT REC'D: 1/25  QUANTITY RECEIVED: 24.676  QUANTITY INSPECTED: 24.676  QUANTITY REJECTED: 9	ŀ		THICKNESS ORDERED: 0.750"  THICKNESS RECEIVED: 0.750"  SHEET SIZE ORDERED:  SHEET SIZE RECEIVED:	_
DESCRIPTION	(Ch	CR eck (N)	COMMENTS	
SURFACE DAMAGE	Y	(N)		
CORRECT FINISH	(Y)	N		
CORROSION	Υ	(1)		
CORRECT GRAIN DIRECTION	(8)	N		
ORRECT MATERIAL PER M-DRAWING	Y	N	ASTM 1564	
CORRECT THICKNESS	Ø	N		
PHOTO REQUIRED	Υ	(1)		_
CORRECT REF # TO LINK CERT	(Y)	N	W1.9560264-65011	_
ORRECT MATERIAL IDENTFICATION		0		_
CORRECT M# ON THE MATERIAL	Υ	D		_
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(N)		
DOES THIS REQUIRE AN				

CUT SAMPLE PIECE OF I	MATERIAL A	ND PREFOR	M A HARDNE	SS CHECK.	
R	ECORD RES	SULTS BELOV	N		
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

**EXTRUSION REPORT** 

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: /8///01	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

FEH-11948

P898 BLUSTONA

Fax: [FAX] Date: 05/11/2018 Attention: [NAME]

51311

the 2354

Printable fest Report

Vendor/Vendeur\_ 

TEST REPORT RAPPORT D'ESSAI

Page 1 of 1

Customer/Client\_ Purchase Order/Bon de Commande\_ G\_50344\_5 MAY Bill of Lading/Connaissement\_ 743475 Sold To/Vendu A\_ LES ACIERS TRANSBEC (1997) LTEE 4054 LE COURBUSIER, SUITE 201 ArcelorMittal Dofasco G.P. P.O. Box 2460 Hamilton, Ontario

L8N 335

LAVAL, QC.

Spec/Norm et Spec\_ ASTM A1011/A1011M CS TYPE B (17a) STANDARD THICKNESS TOLERANCE STANDARD UNEXPOSED SURFACE MATERIAL CERTIFICATION REQUIRED

Material Dascription/Description du Material, GOT RÔLLED STEEL SWEET COMMERCIAL STEEL MILL EDGE
.1150 MIN .1230 X 48 X COLL
WEIGHT: 43350 LBS
\_COUNTRY of Origin/Pays d'Origine\_ Test Methods/Methods d'Essai\_ ASTM E1019, E415 CANADA

Alt Cb V .033 .0008 .003 Als .032 . 19. ب 80. . 03 2 2 .004 LIFT # FARDEAU 4302640 Mn .17 SERIAL NUMBER NOMBRE DE SERIE COULEE C P63238/80 2000 X

08/06/2018

Printable Test Report

We Certify That The Material Described Herein Conforms To The Specification Shown On This Document ArcelorMittal Dofasco G.P. as per John Duric \_ CMTL Supervisor The Results Relate Only To The Itoms Tested This Report Shall Not Be Reproduced Except In Full Without The Expressed Written Approval of The CMTL Supervisor.

This Contract Is Subject To The Terms And Conditions OF Sale Shown On The Order Acknowledgement. Ce Contrat est Sujet aux Terms et Conditions de Vente Indiques Sur l'Accuse de Reception de Commande.





DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA					
CHECKE	APPROVED	DRAWING NO. MICIO - S	REV A				
DATE	1.06.13	1010-1025 THEET	SCALE N I S				
A	01 06.13	NEW ISSUE					
AI	04 03.09	ADD ASTM A1008 AND GO	LA ROLLED				

PURCHASE MATERIAL :

ATST 1010-1025 OR ASTM A36 /A366 /A1008 OR CSA 640-21, 38W /44W/SOW/GOW/70W

MINIMUM YILLD TENSILE STRENGTH = 28 KSI MINIMUM ULTIMATE TENSILE STRENGTH = 42 ksi

COLD ROLLED

PART NUMBER:

MIDIO-STIFA WHERE IT GUAGE THICKNES

EG. 16 GAUGE STEEL = MIDIO-SIGGA



MATERIAL: <u>M/6103</u> DATE: <u>/8/11/0</u>		5			PO / BATCH	NO.: <u>P004</u>	1482/512339
MATERIAL CERT REC'D: 1/25  QUANTITY RECEIVED: 325F  QUANTITY REJECTED: 325F				THIC	CKNESS ORDEF KNESS RECEIV ET SIZE ORDEF ET SIZE RECEIV	/ED: 0-13	
DESCRIPTION	NC (Ch Y/	eck			COMMENT	S	
SURFACE DAMAGE	Y	N					
CORRECT FINISH	8	N					
CORROSION	Υ	N					
CORRECT GRAIN DIRECTION	8	N					
CORRECT MATERIAL PER M-DRAWING	Y	(0)					
CORRECT THICKNESS	8	N					
PHOTO REQUIRED	Y	0					
CORRECT REF # TO LINK CERT	(A)	N	15288	6			
CORRECT MATERIAL IDENTFICATION	_	D					
CORRECT M# ON THE MATERIAL	Υ	(A)					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	N					
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(0)					
CUT SAMPLE PIECE				ND PREFOR		SS CHECK.	
	-		HRC	HRB	DURA	DUR D	WEBSTER
TYPE OF MATERIAL							7.225.2.1
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER READI	NG						
		sters	located in	the Quality Offi	ce		

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	SIGNED OFF BY:
DATE: /8/11/01	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

RCR-6-V

Macateel Bright Bar

A division of

Mansteel Service Centers SA (Fty) Limited Reg No. 2005/016292/07 Vat No. 4430554206

P.O. Box 120 Meyerton 1960

Seymour Road, Industrial Sites, Meyerton

South Africa



BRIGHT

12-Sep-17

CHEMICAL ANALYSIS CERTIFICATE

TO:

LES ACIERS TRANSBEC (1997) LTEE

6 " 152.40MM Q1018

PO # CA47916 LOT4 REF 170647C ASTM A108 - 13

CAST No.	C. %	Si. %	Mn. %	5. %	P. %	Pb. %
1702492	0.160	0.250	0.720	0.003	0.014	

5 moloi

01:02 PM

heat: 170249'd

APPROVED WW WW HOT ROLLED STEEL ROUND BAR S. SAC SAC MT-HRS-R 06/10/2017 DATE TOLERANCES PER MANUFACTURER SPECIFICATIONS 17-845 ECN# ASTM A36 OR ASTM A1011 OR 44W OR ASTM A1018 A STAND OF STANDS OF STANDS CORRECTED DRAWING NUMBER IN TITLE BLOCK WHERE D.DDD IS DIAMETER IN INCHES DESCRIPTION HOT ROLLED STEEL ROUND BAR SPECIFICATION CONTROL DRAWING MT-HRS-R-[D.DDD] MT-HRS-R-0.250 REV. PURCHASE MATERIAL: SPECIFICATION: PART NUMBER: EXAMPLE:

0

0

MATERIAL: MT-HRS-R-6000 DATE: 18/11/01						PO / BATCH	NO.: 100	4148	1/5123419
MATERIAL CERT REC'D: 41  QUANTITY RECEIVED: 25+  QUANTITY REJECTED: 25+					THICK	NESS ORDE NESS RECEI FSIZE ORDE SIZE RECEI	VED: 6.	025 (1	
DESCRIPTION	NCR (Check Y/N)					COMMEN <sup>*</sup>	гѕ		
SURFACE DAMAGE		W					•		
CORRECT FINISH	(Y)								
CORROSION	Y	(N)							
CORRECT GRAIN DIRECTION	(Y)	N							
CORRECT MATERIAL PER M-DRAWING	Υ	N			-				
CORRECT THICKNESS	(V)	N							-
PHOTO REQUIRED	Υ	N		-					
CORRECT REF # TO LINK CERT	Q	N	HT:17	D249 J					
CORRECT MATERIAL IDENTFICATION	Υ	N	7.7						
CORRECT M# ON THE MATERIAL	Υ	(M)							
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Υ	(2)							
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	(W)				· · · · ·			
CUT SAMPLE PIECE			TERIAL A			A HARDNE	SS CHECK	ζ.	
			HRC	HRB		DUR A	DUR D	V	VEBSTER
TYPE OF MATERIAL									
SIZE OF TEST SAMPLE									
HARDNESS / DUROMETER READIN	VG								
	<u>te</u>	sters	located in	the Quality	Office				

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

DATE: 18/11/01 SIGNED OFF BY:

DATE: DATE: